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THE GENERA OF FISHES

PART II.

FROM AGASSIZ TO BLEEKER, 1833-1858, TWENTY-SIX YEARS,
WITH THE ACCEPTED TYPE OF EACH.

A CONTRIBUTION TO THE STABILITY OF SCIENTIFIC NOMENCLATURE

BY

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STANFORD UNIVERSITY, CALIFORNIA

PUBLISHED BY THE UNIVERSITY

1919

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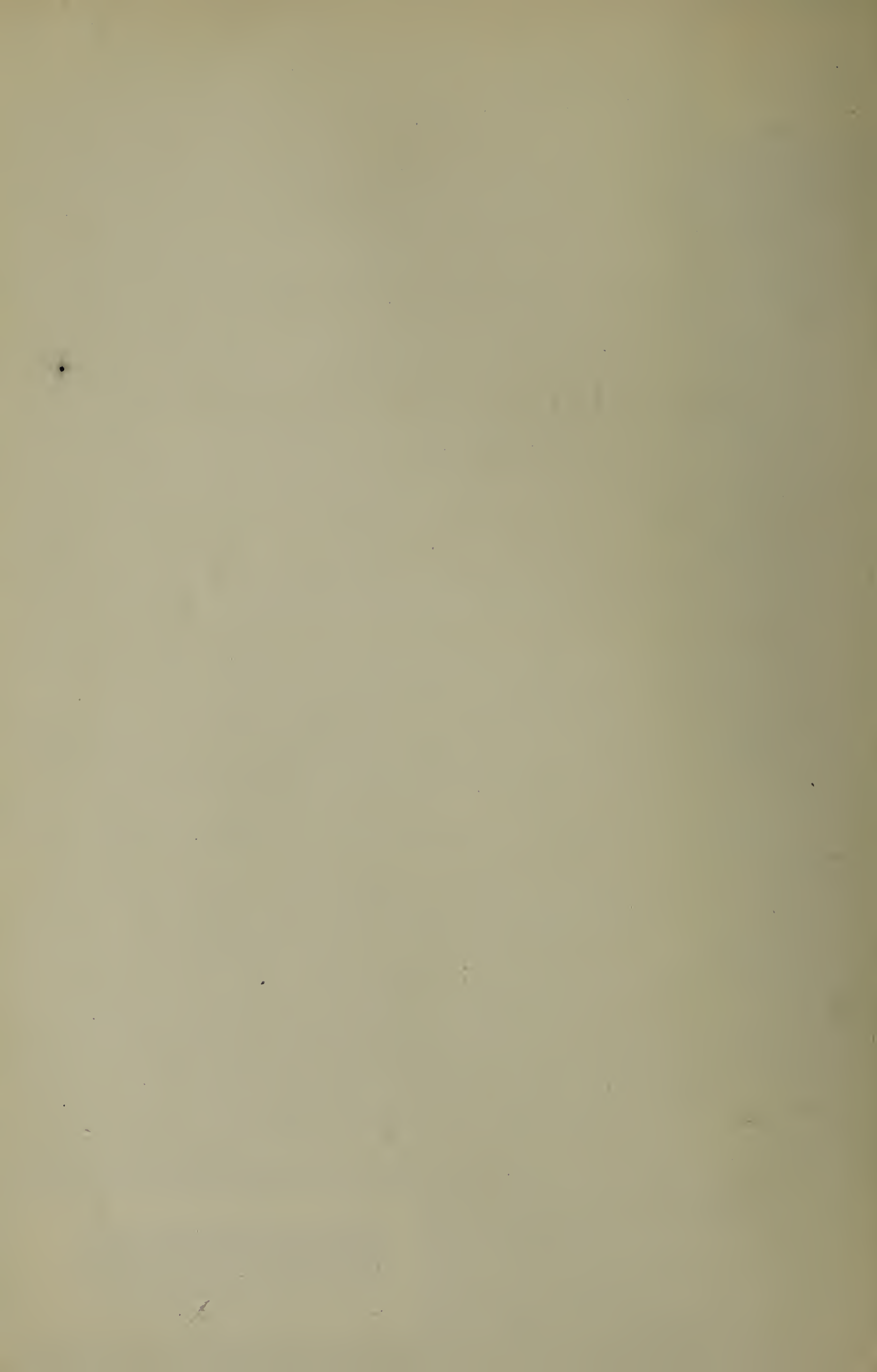
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Abbreviations of author names, where used, following words in small capitals are as follows:

Ag. Agassiz	J. & G. Jordan & Gilbert
B. & C. Bocage & Capello	J. & E. Jordan & Evermann
Baird & Grd. Baird & Girard.	K. & S. Kner & Steindachner
Barn. Barneville	Kölr. Kölreuter
Beyr. Beyrich	L. Linnæus
Bl. & Schn. Bloch & Schneider.	Lac. Lacépède
Blainv. Blainville	Lank. Lankester
Blkr. Bleeker	M. & H. Müller & Henle
Bon. Bonaparte	M. & T. Müller & Troschel
Cuv. Cuvier	McCl. M'Clelland
Cuv. & Val. Cuvier & Valenciennes.	Q. & G. Quoy & Gaimard
Dum. Duméril	Raf. Rafinesque
Egert. Egerton	Ranz. Ranzani
Ehrenb. Ehrenberg	Reinh. Reinhardt
Eichw. Eichwald	Rich. Richardson
G. & B. Goode & Bean.	Steind. Steindachner
Grd. Girard	Sw. Swainson
Gthr. Günther	T. & S. Temminck & Schlegel
Guich. Guichenot	Val. Valenciennes
Ham. Hamilton	Woodw. Woodward

INTRODUCTORY NOTE

This present memoir is a continuation of a paper entitled, *The Genera of Fishes, from Linnæus to Cuvier, 1758-1833, seventy-five years, with the accepted type of each, a contribution to the stability of scientific nomenclature*, published by the present writer in 1917.

It is likewise a contribution to the stability of scientific nomenclature. It covers what may be termed the mediæval period of systematic ichthyology, the time in which nomenclature is fairly established, but in which, for want of a general zoological record, many papers have been overlooked or forgotten.

This period is especially marked by the studies of Professor Agassiz on the fossil fishes, by the exhaustive record of the fishes of the East Indies by Dr. Bleeker, and by the unification of ichthyological knowledge by Valenciennes and by Dr. Günther. Günther's *Catalogue of the Fishes of the British Museum*, 1859-1870, must always remain the solid foundation on which systematic zoology is built. This period is also marked by the studies in comparative zoology by Dr. Johannes Müller and by the opening to science of the rich fresh-water fauna of North and South America. In this period wrote also the keenest of taxonomic critics, Dr. Gill, whose conceptions of genera and of families are likely in a large degree to constitute the last word in regard to the status of groups of this grade. Other notable writers whose work has been of a high order are Richardson, Schlegel, Lowe, Egerton, Reinhardt, Poey, Heckel, Kner, Pictet, Holbrook, Baird, Troschel, Owen, McClelland, Rüppell, Henle, Storer, DeKay, Ayres, Cooper, Girard and Cope. Of the many writers in the period preceding the year 1870, Steindachner only, one of the most industrious and accurate, is still living. When the writer visited him in Vienna in 1913 he was still, at the age of 79, hard at work, and one important paper of his bearing date of 1915 has found its way through the vicissitudes of censorship to my library.

In accordance with the philosophy of evolution, the writers at the end of this period have inverted the fish series, the simplest and most ancient types being placed first in taxonomic records, rather than the perch and its relatives, so long regarded as typifying the perfect or completed fish.

Compilations of this sort constitute an exercise in modesty. They can never be made absolutely complete nor free from errors. In the present case, the author cannot be certain that the genotype he indicates is actually the one chosen by the first reviser. The compilation itself deals with the work of great minds, but also with a degree of ignorance, carelessness and perversity by which names were multiplied with no corresponding increase of ideas. Synonymy in general is the index of lack of actual knowledge, or else, of the failure to deal justly with the work of others, "a burden and a disgrace to science". No system of naming can be beyond the knowledge on which it rests. Ignorance of fact produces confusion in nomenclature.

The science of ichthyology, to which the present series of papers offers a kind of key, is the work of many scholars, each in his own field, each contributing a series of facts, a series of tests of the work of others, or else some improvement in the method of arrangement. As in other branches of science, this work has been done by sincere, devoted men, impelled by a love for this kind of labor, and having in view, as "the only reward they asked, a grateful remembrance of their work". And as future generations may be lenient towards our own shortcomings, we should be generous towards those of our predecessors.

In so far as the present paper assumes to decide questions of nomenclature, it follows strictly the rules agreed on by the International Commission. Of these, the one of most vital importance is concerned with the rigid enforcement of the law of priority.

The writer expresses his special obligation to Mr. Barton A. Bean of the United States National Museum, and to Henry Weed Fowler of the Academy of Natural Sciences of Philadelphia for services in examining rare or forgotten books, and to Mr. Masamitsu Oshima, for valuable aid in compilation. He is also under special obligations to Mr. R. A. Nelgner of the Stanford University Press for his care in ensuring accuracy in this difficult piece of work. In arranging the genera of fossil fishes, he has depended almost entirely on the *Catalogue of the Fossil Fishes in the British Museum*, by Arthur Smith Woodward. The cataloguing of the scattered and multifarious genera of Dr. Bleeker has been made possible by the *Index of the Ichthyological Papers of P. Bleeker*, by Dr. Max Weber and Dr. L. F. de Beaufort. In matters of citation of titles Dean's *Bibliography of Fishes* has been absolutely indispensable. The writer hopes to complete this work by a final paper covering the period from 1859 to 1920. The need of such compilation grows progressively less, as the *Zoological Record* of London, beginning with 1864, contains references to nearly all the generic names of subsequent date, although having occasional surprising omissions.

The writer asks for additions and corrections, that the work may be as helpful as possible to students of fishes.

It will be noted that the genera have been arranged as far as may be in chronological order, publications of the same year being arranged in alphabetical order in accord with the names of authors.

The term *orthotype* is applied to the type of a genus as indicated or distinctly implied by the original author. A *logotype* is one selected by the "first reviser". A *haplotype* is the sole species named under a genus, therefore of necessity an *orthotype* as well. A *tautotype* is a name of a genus identical with the specific name of one of its components.

STANFORD UNIVERSITY, CALIFORNIA,
November 11, 1918: Issued July, 1919.

ADDITIONS AND CORRECTIONS TO PART I.

1758

1. LINNÆUS (1758). *Systema Naturæ*. Ed. X, Vol. 1.

CARL LINNÉ (CAROLUS LINNÆUS). (1707-1778.)

Trigla Linnæus, 300; logotype *T. GURNARDUS* L., as restricted by Kaup, 1873, Apparently this should replace the later restriction to *T. LYRA* L. of Jordan & Gilbert, 1883, this species being type of *LYRICHTHYS* Kaup.

Mormyrus Linnæus, 327; logotype *M. CASCHIVE* Hasselquist, as restricted by Gill. (Not *M. CYPRINOIDES* L., as stated in part 1, page 15; this species is the type of *MARCUSENIUS* Gill.)

Tetraodon Linnæus, 332; logotype *T. LINEATUS* L. I am compelled to revise my judgment, as given in part I of the *Genera of Fishes*, page 15, in which I present the reasons for regarding *T. TESTUDINEUS* L. as the type of **TETRAODON**. This judgment is based on Bleeker's restriction of the genus in 1865. I find that an earlier restriction was made by Bonaparte in the *Fauna Italica*, about 1841, "**TETRAODON LINEATUS** Bloch" being taken as type following a suggestion of Swainson. Bloch's account includes the synonymy and description of *T. LINEATUS* L., although the figure he offers may have been based on an example of *T. STELLATUS*.

In this view of the case, the type of **TETRAODON** should be *T. LINEATUS*, a fresh-water species of the Nile, with which the numerous marine species called *OVIDES* (*AROTHRON*) may not be congeneric. According to Dr. Gill, the type of **TETRAODON** is distinguished from the Pacific species known as *OVIDES* by the form of the frontal bones, a matter which needs further elucidation.

In this view the name *SPHEROIDES* should stand, as used by Jordan and Evermann, for the allies of *T. TESTUDINEUS* L.

1764

7. HOUTTUYN (1764). *Naturlike historie volgens den Heer Linnæus*.

MARTIN HOUTTUYN.

Conger Houttyn, VII, 103, and **TORPEDO** Houttuyn, VII, 453, as quoted in *Genera of Fishes*, page 22, are not presented by Houttuyn as generic names, and the reference to them should be canceled.

In a personal letter dated August 23, 1918, Mr. C. Davies Sherborn says: "TORPEDO is the trivial Linnæan name of the species *RAJA TORPEDO* and **CONGER** is the trivial Linnæan part of the species name *MURÆNA CONGER*. Neither name is used scientifically nor is there any intention on Houttuyn's part to do more than quote the Linnæan term for the fish he describes as 'KRAMPFISCH' and 'CONGER'."

The record of this work of Houttuyn should therefore be erased as having no relation to scientific nomenclature.

1767

9. MÜLLER (1767). *Delineationes Naturæ*. II, 141.

PHILIP LUDWIG STATIUS MÜLLER (1725-1776).

Mr. Sherborn informs me that the generic names *ACUS*, page 141, and

ORBIS, page 141; "are perfectly valid," that is, properly presented as generic names. ACUS is a synonym of SYNGNATHUS L., ORBIS of DIODON L.

10. GEOFFROY (1767). *Descriptions de 719 plantes*, etc.

ÉTIENNE LOUIS GEOFFROY (1725-1810).

Ichthyocolla Geoffroy, 399; haplotype ACIPENSER HUSO L. This replaces HUSO Brandt, and STERLETUS Raf. Mr. Sherborn informs me that the generic names used by Geoffroy are "perfectly valid" for purposes of nomenclature. These are:

ICHTHYOCOLLA, 399, (HUSO Brandt).

HARENGUS, 405, (CLUPEA L.).

LUCIUS, 467, (ESOX L.).

TRUTTA, 719, (TRUTTA L.).

1772

17A. GRONOW (1772). (*Pteraclis*.) *Actæ Helveticæ*. VII.

LORENZ THEODOR GRONOW (LAURENTIUS THEODORUS GRONOVIVS). (1730-1777).

Pteraclis Gronow, 44; orthotype P. PINNATA GRONOW = CORYPHÆNA VELIFERA Pallas. As here used, unquestionably binomial.

17B. GÜLDENSTÄDT (1772). (*Sterleta*.) *Nov. Comm. Sci. Petropol*, XVI.

ANTON JOHANN GÜLDENSTÄDT.

Sterleta Güldenstädt, 533; type ACIPENSER RUTHENUS L. under polynomial designation. If eligible, will replace STERLETUS Brandt and STERLEDUS Bon.

1775

20. KLEIN (1775). *Neuer Schauplatz*, etc.

JAKOB THEODOR KLEIN (1685-1759).

Prochilus Klein, I, 1043; AMPHIPRION EPHIPIUM Bloch, as restricted by Bleeker, 1877 (P. OVATÆ FIGURÆ MACULA FUSCA MAGNA Klein). This name, if deemed eligible from the date of the *Schauplatz* would replace AMPHIPRION Bl. & Schn., instead of PHOLIS Cuv. & Val. (LIPOPHRYS Gill), as suggested in part I of this work.

1779

31A. KLEIN (1779). *Neuer Schauplatz*, etc.

JACOB THEODOR KLEIN.

Platystacus Klein, VIII, 52, 1779; type (P. COTYLEPHORUS Bloch); a synonym of ASPREDO (Gronow) Scopoli.

1788

31B. BRÜNNICH (1788). *Om den islandske fisk Vaagmaeren* (*Gymnogaster arcticus*). *Kong. Dansk. Selsk. Skr.*, III, 408-413.

MORTEN THRANE BRÜNNICH (1737-1827)

Gymnogaster Brünnich, III, 408; orthotype G. ARCTICUS Brünnich. A synonym of TRACHIPTERUS Gouan. Not TRICHIURUS L.

1795

45. BLOCH (1795). *Naturgeschichte der ausländischen Fische*. IX.

MARK ELIESER BLOCH (1729-1799).

Gymnothorax Bloch IX, 83, 1795; type as first restricted (Bleeker, 1864) G. RETICULARIS Bloch. Although originally virtually a substitute name for MURÆNA L., the first fixation of types separates the two. GYMNOTHORAX thus replaces LYCODONTIS McCl.

1796

47. VOLTA (1796). *Ichthyolithologia Veronese*.

GIOVANNI SERAFINO VOLTA.

Monopteros Volta, CXCL; orthotype *M. gigas* Volta (fossil). Replaces **PLATINX** Ag. **MONOPTERUS** Lac., 1798, is thus preoccupied and must give way to **FLUTA** Bl. & Schn. (1801).

1801

55. BLOCH & SCHNEIDER (1801). *Systema Ichthyologiæ*.

MARK ELIESER BLOCH; JOHANN GOTTLÖB SCHNEIDER (1750-1822).

Periophthalmus Bloch & Schneider, 63; logotype, as first restricted (by Gill, 1863)

Gobi SCHLOSSERI Pallas. The name therefore replaces **PERIOPHTHALMODON** Blkr., while the common species known as **PERIOPHTHALMUS BARBARUS** or **P. KOELREUTERI** is the type of **EUCHORISTOPUS** Gill (1863).

Synanceja Bloch & Schneider, 194; logotype *S. verrucosa* Bl. & Schn., as first restricted by Müller, 1843. This limitation to species without vomerine teeth holds as against Bleeker's restriction to the first species named, *S. horrida*. **SYNANCEJA** thus replaces **SPURCO** Commerson, **SYNANCEICHTHYS** Blkr. and **EMMYDRICHTHYS** Jordan & Rutter. *S. horrida* is type of **SYNANCIDIUM** Müller. I am not convinced by Bleeker's statement that **SYNANCIDIUM** is not a valid genus.

Fluta Bloch & Schneider, 565; orthotype **MONOPTERUS JAVANENSIS** Lac. Name a substitute for **MONOPTERUS** Lac. (1798). The latter is preoccupied by **MONOPTEROS** Volta (1796). The type species should stand as **FLUTA ALBA** (Zuiewu).

1803

56. LACÉPÈDE (1803). *Histoire naturelle des poissons*. IV, V.

BERNARD GERMAIN LACÉPÈDE (1756-1825).

Enoplosus Lacépède, IV, 540; orthotype **CHÆTODON ARMATUS** Shaw. This genus dates from 1803. The name **ENOPLOSUS** was not used by White in 1790.

Stolephorus Lacépède, V, 381; logotype *S. commersonianus* Lac. In view of the fact that the descriptions of **STOLEPHORUS** of Lacépède, Bleeker and Jordan were drawn from this species, the second-named by Lacépède, it may well be regarded as the type of **STOLEPHORUS**. *S. japonicus*, the first-named species and the one first formally indicated as type, was very scantily described, and was unknown to authors until very recently. In this view **STOLEPHORUS** will replace or include **ANCHOVIELLA** Fowler (1911). This reverses the decision in part I, page 67.

1804

56A. LACÉPÈDE (1804). *Mémoires sur plusieurs animaux de la Nouvelle Hollande*, etc. Ann. Mus. Nat. Hist., IV, 1804.

BERNARD GERMAIN LACÉPÈDE.

Prionurus Lacépède, IV, 211; orthotype *P. microlepidotus* Lac.

Platypodus Lacépède, IV, 211; orthotype *P. furca* Lac.

This genus, overlooked by subsequent writers, seems to belong to the **OSPHRONEMIDÆ**, an ally of **MACROPODUS**. It is said to have large fan-like ventrals of at least eight rays, the dorsal extending from the nape to the base of the caudal, which is narrow, forked, its lobes half as long as rest of body; pectorals small; anal very low. This may be, as suggested by Dr. Günther for **MACROPODUS**, a domesticated form of **POLYACANTHUS**. Both names, if correctly written (**MACROPUS**; **PLATYPUS**), are preoccupied.

- 56B. BORY DE SAINT VINCENT (1804). *Voyage dans les quatre principales îles des Mers d'Afrique*. 1801 et 1802.

JEAN BAPTISTE BORY DE ST. VINCENT (1780-1846).

Acinacea Bory de St. Vincent, I, 93; orthotype *A. NOTHA* Bory ("l'acinacée bâtarde"). An ally of *THYRSITES* Cuv., overlooked by authors. It differs from *THYRSITES* (*ATUN*), if correctly described and figured, in the presence of twenty-nine spines in the dorsal fin, instead of twenty. The type specimen was from the open sea, off Africa. If identical with *THYRSITES*, *ACINACEA* has priority. The Latin form as well as the French is given by the author.

1808

67. DUMÉRIL (1808). *Dissertation sur les poissons Cyclostomes*.

ANDRÉ MARIE CONSTANT DUMÉRIL (1774-1860).

Ammocœtus Duméril; orthotype *PETROMYZON BRANCHIALIS* L. (larval form of *PETRIMYZON MARINUS* or of *LAMPTERA PLANERI*, or both). Best treated as a synonym of *PETROMYZON*.

1810

72. RAFINESQUE (1810). *Caratteri di alcuni nuovi generi e nuove specie di animale e piante della Sicillia*.

CONSTANTINE SAMUEL RAFINESQUE (1783-1840).

Typhle Rafinesque, 18; orthotype *SYNGNATHUS TYPHLE* L. We are unable to find any further notice of the blind genus of mammals "TYPHLE", as noted by Lacépède. *TYPHLE* should therefore apparently stand, and not be replaced by *TYPHLINUS* Raf. (1814).

1811

- 75A. PERRY (1811). *Arcana or Museum of Natural History*.

GEORGE PERRY.

Congiopus Perry; orthotype *C. PERCATUS* Perry = *BLENNIUS TORVUS* Walbaum. Replaces *AGRIOPUS* Cuv., 1829.

- 75B. HUMBOLDT & VALENCIENNES (1811). *Recherches sur les poissons fluviatiles; Humboldt & Bonpland; voyage aux régions équinoxiales du nouveau continent*. II (later edition; the original in 1806).

FRIEDRICH HEINRICH ALEXANDER VON HUMBOLDT (1769-1859); ACHILLE

VALENCIENNES (1794-1865).

Thrycomycterus Humboldt & Valenciennes; orthotype *T. NIGRICANS* Humboldt & Val; a synonym of *EREMOPHILUS* Humboldt, according to Eigenmann. Name spelled *TRICHOMYCTERUS* by Valenciennes in 1846, and the genus made to include *PYGIDIUM* Meyer.

1815

85. RAFINESQUE (1815). *Analyse de la nature*, etc.

CONSTANTINE SAMUEL RAFINESQUE.

Raphistoma Rafinesque, 89; no type named and no diagnosis, except an erroneous reference to Lacépède. Intended to represent *ESOX BELONE* L. Spelled *RAMPHISTOMA* by Swainson, who adopts the name. Is apparently not eligible in place of *BELONE* Cuv., 1817, though an argument might be made for its acceptance, as we know the type intended and there are a few words of inaccurate diagnosis.

Eleuthurus Rafinesque; no diagnosis and no type given. Omitted by inadvertence in *Genera of Fishes*, part I. According to Bleeker, Rafinesque's names (undefined and without type), DAMEUS, ELEUTHURUS, RINCOXIS and ZEBRISCIUM, were intended for eels). In the account of Rafinesque's *Analyse*, given in *Genera of Fishes*, part I, are a few misprints arising from misreading a manuscript list. Read:

ICTIAS, p. 82.

BATRICTIUS, 82.

CEPHIMNUS, 85.

EDONIUS, 88.

PLATISTUS, 89 (for PLATYSTACUS).

RAPHISTOMA, 89.

ODAMPHUS, 89.

GONODERMUS, 91.

DISPINOTUS, 92.

1817

91. CUVIER (1817). *Le Règne Animal, etc.* Tome II.

GEORGES CUVIER (1769-1832).

Hydrocynus Cuvier, II, 167; logotype H. FORSKALI Cuvier; several species named, the genus restricted by Cuvier (*Mem. Mus.*, 1819) to H. FORSKALI, and the name spelled HYDROCYON. Also in *Cuv. & Val.*, XXII, 509, 1849. The name was afterwards restricted to H. LUCIUS Cuv., a species of XIPHOSTOMA, Ag., but the first adjustment must stand. The name is HYDROCYNUS and the genus contains no American species.

Bodianus Cuvier, *Règne Animal*, II, 276; logotype BODIANUS GUTTATUS Bloch; (not BODIANUS of Bloch) which by tautonymy goes with BODIANUS BODIANUS Bloch, and replaces HARPE Lac. Gill restricts BODIANUS (*Proc. Acad. Nat. Sci. Phil.*, 1862, 237) to B. GUTTATUS Bloch, a species of CEPHALOPHOLIS Bl. & Schn. By the rule of tautonymy, under present rules BODIANUS must stand for HARPE RUFA.

92. OKEN (1817). *Isis*.

LORENZ OKEN (1777-1851).

In *Isis*, 1817, Oken furnishes Latin equivalents to the French generic names used by Cuvier.

Lumpus Oken 1782, orthotype CYCLOPTERUS LUMPUS L. = LUMPUS ANGLORUM of authors. Equivalent for "les LUMPS" of Cuvier, a synonym of CYCLOPTERUS L. Omitted by accident in part I.

1818

97. BLAINVILLE (1818). (*Poissons fossiles*.) Nouveau Dictionnaire d'Histoire Naturelle.

HENRI MARIE DUCROTAY DE BLAINVILLE (1777-1850).

Anormurus Blainville, XXVII, 374; orthotype A. MACROLEPIDOTUS Blainv. (fossil). Perhaps the same as NOTOGONEUS Cope, 1885.

1820

108. GOLDFUSS (1820). *Handbuch der Zoologie*. II.

GEORGE AUGUST GOLDFUSS (1782-1848).

Rhomboides Goldfuss; orthotype PLEURONECTES RHOMBUS L. Substitute for RHOMBUS Cuv.; a synonym of BOTHUS Raf.

Batrachopus Goldfuss (not BATRACHOPS). Orthotype **LOPHIUS COMMERSONIANUS** Lac. A synonym of **ANTENNARIUS**.

1822

110. HAMILTON (1822). *An Account of the Fishes Found in the River Ganges and Its Branches*.

FRANCIS HAMILTON (formerly BUCHANAN) (1762-1829).

The reprint of Hamilton's *Fishes of the Ganges* has the pagination changed from that given in the text of the *Genera of Fishes*, page 114. Thus, in the reprint, **CHANDA** appears on page 109, not 370.

Callichrous Hamilton, 149; logotype **SILURUS PABDA** Ham. (as restricted by Bleeker, 1862). A synonym of **OMPOK** Lac.

Coius Hamilton, 369 (95); logotype **COIUS POLOTA** Ham., as restricted by Fowler, 1905. This designation of type prior to that of Jordan, 1917. Replaces **DATNIOIDES** Blkr., 1853.

Chanda Hamilton, 370; logotype **CHANDA NAMA** Ham. (fig. 37) (**HAMILTONIA OVATA** Sw.). The type of the substitute name **HAMILTONIA** Sw. (1839) as indicated by Swainson and by Swain (1882) carries the complex genus **CHANDA** with it. This antedates Fowler's choice (1902) of **CHANDA LALA** as type. **C. NAMA** is type of **BOGODA** Blkr. **CHANDA** should therefore replace **BOGODA**.

Corica Hamilton, 253 or 383; orthotype **CYPRINUS SOBORNA** Ham. The name **SOBORNA** (misspelled in the *Genera of Fishes*, page 115) is given as **GUBORNI** by Gray.

1823

112. VAN HASSELT (1823). *Poissons de Java*. Allgemeine Konst en Letterbok, II. JAN CÆNRAD VAN HASSELT (d. 1821).

Dermogenys Van Hasselt, 131; orthotype **D. PUSILLUS** Van Hasselt (omitted in part I). Spelled **DERMATOGENYS** by Peters.

Diplocheilus Van Hasselt, 329; orthotype **D. ERYTHOPTERUS** Van Hasselt.

Gonostoma Van Hasselt, 329; orthotype **G. JAVANICUM** Van Hasselt. Name pre-occupied; replaced by **ANODONTOSTOMA** Blkr.

1825

119. KÖNIG (1825). *Icones fossilium sectiles*.

CLEMENS KÖNIG.

Teraticthys König, 4; orthotype **T. ANTIQUITATIS** König (fossil). An unknown ally of **CARANX**.

- 119A. LE SUEUR (1825). *Description of a New Fish of the Genus Salmo* (*S. microps*). Journ. Acad. Nat. Sci. Phila.

CHARLES ALEXANDRE LE SUEUR (1778-1846).

Harpodon Le Sueur, V, 50; orthotype **SALMO MICROPS** Le Sueur = **OSMERUS NEHEREUS** Ham.

- 119B. ADANSON (1825). *Cours d'histoire naturelle*.

MICHAEL ADANSON (1727-1806).

Trygon Adanson, II, 170; orthotype **RAJA PASTINACA** L. A synonym of **DASYATIS** Raf. (According to Auguste Duméril, Adanson's paper, written in 1772, was printed by Payer in 1825).

1826

121. RISSO (1826). *Histoire naturelle des principales productions de l'Europe méridionale.*

ANTOINE RISSO (1770-1845).

Charax Risso, III, 353; orthotype *C. ACUTIROSTRIS* Risso = *SPARUS PUNTAZZO* L. Preoccupied; replaced by *PUNTAZZO* Blkr.

- 121A. RILEY (1826). *On a Fossil in the British Museum (Squaloraia dolichognathos) and Discovered in the Lias at Lyme Regis.* Proc. Geol. Soc. I (also in Trans. Geol. Soc., 1833).

HENRY RILEY.

Squaloraia Riley, I, 484; orthotype *S. DOLICHOGNATHOS* Riley (fossil).

1828

128. RÜPPELL (1828). *Atlas zu der Reise im nördlichen Africa; Fische des Rothen Meeres.*

EDUARD RÜPPELL (1794-1884).

Petroscirtes Rüppell, 110; orthotype *P. MITRATUS* Rüppell. Omitted by accident from part I; sometimes spelled *PETROSKIRTES*.

- 128A. THIENEMANN (1828). *Lehrbuch der Zoologie.*

FRIEDRICH AUGUST THIENEMANN (1793-1858).

Sphyrichthys Thienemann, III, 408; orthotype *SQUALUS ZYGÆNA* L. A needless substitute for *SPHYRNA* Raf.

132. CUVIER & VALENCIENNES (1828). *Histoire naturelle des poissons.* II.

GEORGES CUVIER; ACHILLE VALENCIENNES.

Pomatomus Cuvier & Valenciennes, II, 171; type *P. TELESCOPIUM* RISSO (*EPIGONUS MACROPHthalmus* Raf.). Not *POMATOMUS* of Lacépède; a synonym of *EPIGONUS* Raf., 1820, as is also *TELESCOPS* Blkr.

1829

134. AGASSIZ (and SPIX) (1829). *Selecta genera et species piscium quos in itinere per Brasiliam (1817-1820) . . . collegit . . . Dr. J. B. de Spix. . .*

LOUIS AGASSIZ (1807-1873); JEAN BAPTISTE DE SPIX (1807-1873).

Xiphorhynchus Agassiz, 18; orthotype *SALMO FALCATUS* Bloch. Name preoccupied; replaced by *XIPHORHAMPHUS* M. & T., 1845; also preoccupied, again replaced by *ACESTRORHYNCHUS* Eigenmann, 1910.

Pirarara Spix, 23; orthotype *PHRACTOCEPHALUS BICOLOR* Ag. A synonym of *PHRACTOCEPHALUS* Ag.

Erythrinus (Gronow) Agassiz, 41; haplotype *E. SALVUS* Ag., the only species named, the genus credited to Gronow. Same as *ERYTHRINUS* Gronow.

135. CUVIER (1829). *Le règne animal distribue d'après son organisation.* Edition, II, Vol. I.

GEORGES CUVIER.

Polyacanthus (Kuhl) Cuvier, 227; logotype *CHÆTODON CHINENSIS* Bloch, as restricted by Cuv. & Val. (not *TRICHOPODUS COLISA* as stated in part I, *Genera of Fishes*).

Rhinoptera (Kuhl) Cuvier, 401; orthotype *MYLIOBATIS MARGINATUS* Geoffroy St. Hilaire.

136. CUVIER & VALENCIENNES (1829). *Histoire naturelle des poissons.* III.

GEORGES CUVIER; ACHILLE VALENCIENNES.

Ostichthys (Langsdorff) Cuvier & Valenciennes, III, 160; orthotype *MYRIPRISTIS JAPONICUS* Cuv. & Val. No generic definition; reestablished by Jordan and Evermann, 1896.

Apistus Cuvier & Valenciennes, IV, 391; logotype *APISTUS ALATUS* Cuv. & Val. called "les APISTES" by Cuvier. Regarded as preoccupied by *APISTA* Hübner, a genus of insects, and by *ASPISTES* Meigen, a genus of flies. If rejected, it may be replaced by *PTERICHTHYS* Sw., 1839, unless that is regarded as invalid, from the non-binomial *PTERICHTHUS* of Commerson (1803), which is *EXOCÆTUS*. *HYPODYTES* Gistel (1848) is also a substitute name, but the indicated type (*LONGISPINIS*) is a *PARACENTROPOGON* of Bleeker, also not mentioned by Cuvier. *PROSOPODASYS* Cantor, 1849, is also given as a substitute name for *APISTUS* and must retain the same type. If *APISTUS* is preoccupied, I think that *PTERICHTHYS* should replace it. . . . *APISTES TRACHINOIDES* Cuv. & Val. used by Günther as type of *PROSOPODASYS* is not eligible for that purpose, the species not being one of those mentioned by Cuvier.

Spurco (Commerson) Cuvier & Valenciennes, IV, 448, 1829; (reference in passing) haplotype *SCORPÆNA BRACHIO* Cuv. = *SYNANCEJA VERRUCOSA* Bl. & Schn., same as *SYNANCEICHTHYS* Blkr.; a synonym of *SYNANCEJA* as restricted by Müller.

136A. SMITH (1829). *Contributions to the Natural History of South Africa*. Zoological Journal.

ANDREW SMITH (1797-1872).

Rhineodon Alexander Smith, IV, 443; orthotype *R. TYPUS* Smith. (*RHINCODON* by misprint.) Also spelled *RHINODON*.

136B. BANCROFT (1829). *On the Fish Known in Jamaica as the Sea Devil* (*Cephalopterus manta*). Zool. Journal, IV.

E. N. BANCROFT.

Manta Bancroft, IV, 444; orthotype *CEPHALOPTERUS MANTA* Bancroft = *RAIA BIR-OSTRIS* Walbaum, 1792.

1830

142. CUVIER & VALENCIENNES (1830). *Histoire naturelle des poissons*. V. GEORGES CUVIER; ACHILLE VALENCIENNES.

Lycogenis (Kuhl & Van Hasselt) Cuvier & Valenciennes, V, 346; orthotype *HOLOCENTRUS CILIATUS* Lac. A section under *SCOLOPSIS* Cuv.

Priopis (Kuhl & Van Hasselt) Cuvier & Valenciennes, VI, 503; haplotype *PRIOPIS ARGYROZONA* Kuhl & Van Hasselt.

143. BENNETT (1830). *Catalogue of the Fishes of Sumatra*. Life and Public Services of Sir Stamford Raffles.

EDWARD TURNER BENNETT (1797-1836).

Leiopsis Bennett, 688; orthotype *SPARUS AUROLINEATUS* Lac. A synonym of *PENTAPUS* Cuv. & Val. (Omitted in part I.)

143A. BENNETT (1830). *Observations on a Collection of Fishes from the Mauritius with Characters of New Genera and Species*. Proc. Zool. Soc. London, 1831, part I.

EDWARD TURNER BENNETT.

Psettodes Bennett, I, 147; orthotype *P. BELCHERI* Bennett.

Agonostomus Bennett, I, 166; logotype *A. TELFARI* Bennett. Replaces *NESTIS* Cuv. & Val.

Apolectus Bennett, I, 169; orthotype *A. IMMUNIS* Bennett. A synonym of *SCOMBEROMORUS* Lac.

1831

146A. CUVIER & VALENCIENNES (1831). *Histoire naturelle des poissons*. VII (January, 1831), VIII, October, 1831.

GEORGES CUVIER; ACHILLE VALENCIENNES.

Drepane Cuvier & Valenciennes, VII, 129; orthotype *CHÆTODON PUNCTATUS* L.; name preoccupied by *DREPANA* or *DREPANE* Schranck, Lepidoptera, 1802; replaced by *ENIXE* Gistel, 1848, and by *HARPOCHIRUS* Cantor, 1849.

Spinax (Commerson) Cuvier & Valenciennes, VIII, 333; orthotype *S. EDAX* Commerson MS. = *GASTEROSTEUS CANADUS* L., note in passing. Name preoccupied; a synonym of *RACHYCENTRON* Kaup (*ELACATE* Cuv.).

146B. BONAPARTE (1831). *Saggio di una distribuzione metodica degli animali vertebrati*. Prospetto del *Systema d'Ittiologia Générale*; also in *Giornale Arcadico*, 167-190, 1832.

CHARLES LUCIEN JULES LAURENT BONAPARTE, PRINCE DE CANINO (1803-1857).

(CARLO LUCIANO BONAPARTE).

Merou ("Cuvier") Bonaparte, 101; type presumably *SERRANUS GIGAS*; not defined. Same as *EPINEPHELUS* Bloch.

Dulichthys Bonaparte, 101; haplotype *DULES AURIGA* Cuv. Name a substitute for *DULES* Cuv., regarded as preoccupied by *DULUS*, a genus of birds. If needed, *DULICHTHYS* replaces *EUDULUS* Fowler.

Pogonathus (Lacépède) Bonaparte, 104. This name is revived as a substitute for *POGONIAS* Lac., 1803, "long since used in ornithology". But *POGONIAS* Illiger dates from 1811, while *POGONIA* and *POGONIAS*, as a genus of birds, are still later in date.

Micropogonias Bonaparte, 104; type *PERCA UNDULATA* L. Substitute for *MICROPOGON*, which is said to be, but apparently is not, preoccupied.

Sarpa Bonaparte 105; a bare word of reference. The intended type is obviously *SPARUS SALPA* L. *SARPA* may stand as a section under *BOOPS*, the body being deeper and more compressed than in *B. BOOPS*.

Palamita Bonaparte, 107; (type *SCOMBER SARDA* Bloch). Name a substitute for *PELAMYS* Cuv. & Val., 1801, preoccupied in reptiles. But *SARDA* Cuv., 1829, is older and stands unless the non-binomial *SARDA* Plumier, 1802 (= *OCYURUS* Gill) is deemed eligible, in which case *PALAMITA* would hold.

Priodontichthys Bonaparte, 109; haplotype *PRIODON ANNULARIS* Cuv. & Val., the young of *NASO ANNULATUS* Q. & G. Substitute for *PRIODON* Cuv., preoccupied. A synonym of *NASO* Lac.

Scopas Bonaparte, 109; type presumably *ACANTHURUS SCOPAS* Cuv. & Val., being placed next to *ACANTHURUS*, but neither diagnosis nor type is given. Presumably the same as *ZEBRASOMA* Sw., but not eligible.

Ctenodon Bonaparte, 109. No description nor type mentioned; presumably intended for *ACANTHURUS CTENODON* Cuv. & Val., preoccupied; replaced by *CTENOCHÆTUS* Gill, 1884.

Elops (Commerson) Bonaparte, 112; (type *GOMPHOSUS TRICOLOR* Lac.). Suggested as a substitute for *GOMPHOSUS* Lac. (Not *ELOPS* L., 1758.)

Erythrichthys Bonaparte, 116; type (*SALMO ERYTHRINUS* Bl. & Schn.). A needless substitute for *ERYTHRINUS* (Gronow) Scopoli. It renders *ERYTHRICHTHYS* T. & S. preoccupied, to be replaced by *ERYTHROCLES* Jordan, 1919.

- 147A. EICHWALD (1831). *Zoologia specialis potissimæ R. Rossicæ et Poloniæ* Wilna, 1831.

CARL EDUARD VON EICHWALD (1795-1876).

Nematosoma Eichwald, III, 60; orthotype *N. OPHIDIUM* Eichw. (not SYNGNATHUS OPHIDION L.) = SCYPHIUS TERES Nordmann, 1840. Name regarded as preoccupied by NEMOSOMA, a genus of beetles. A synonym of NEROPHIS Raf. 1810.

Benthophilus Eichwald, III, 77; orthotype *Gobius macrocephalus* Pallas.

- 150A. GRAY (1831). *The Zoological Miscellany*. I.

JOHN EDWARD GRAY (1800-1873).

Centracion Gray, I, 5; orthotype *C. zebra* Gray, Same as CESTRACION Cuv., 1817, not of Klein. Replaces HETERODONTUS, if that name is regarded as preoccupied by the genus of snakes, HETERODON, 1802.

1832

- 151B. MÜNSTER (1832). *Beiträge zur Kunde der Petrefakten*. I.

GEORG (GRAF ZU) MÜNSTER (1776-1844).

Janassa Münster, I, 67; logotype *J. angulata* Münster (fossil) = TRILOBITES BITUMINOSUS Schlotheim.

- 151C. COUCH (1832). *Fishes New to the British Fauna*. Mag. Nat. Hist., V.

JONATHAN COUCH (1788-1870).

Ciliata Couch, V, 15; orthotype *C. glauca* Couch, a larva of *Gadus mustela* (L.). Name may be retained for the five-bearded Rocklings.

- 151D. NARDO (1832). *Annotazioni di quattro pesci nuovi*, etc.

GIOVANNI DOMENICO NARDO (1802-1877).

(Not seen by us; the title uncertain. The genus *Gouania* is quoted from Canestrini.)

Gouania Nardo; orthotype *G. prototypus* Nardo = LEPADOGASTER WILLDENOWI (Risso). Antedates RUPISUGA Sw.

- 151E. KRYNICKI (1832). *Schilus pallasii descriptus et icone illustratus*. Nouv.

Mém. Soc. Nat. Moscou, II.

J. KRYNICKI.

Schilus Krynicki, II, 441; orthotype *S. pallasii* Krynicki = PERCA VOLGENSIS Pallas. Replaces MIMOPERCA Gill & Jordan, 1877.

152. MINDING (1832). *Lehrbuch: Naturgeschichte der Fische*.

JULIUS MINDING.

Hydronus Minding, 83; orthotype *Gadus merlucius* L. A synonym of MERLUCIUS Raf.

153. NILSSON (1832). *Prodromus ichthyologiæ Scandinaviæ*.

SVEN NILSSON (1787-1883).

Salvelini Nilsson, 7; orthotype *Salmo salvelinus* L. = *S. alpinus* L. Group name, in the plural only; written as SALVELINUS by Richardson (1836).

Carassius Nilsson, IV, 290; orthotype *Cyprinus carassius* L.

- 153A. REINHARDT (1832). *Bidrag til vor kundskab om Grönlands fiske*.

Dansk. Vid. Selsk. Afh. Kjöbenhavn, V.

JOHANNES REINHARDT (1776-1845).

Triglops Reinhardt, V, 52; orthotype *T. pingeli* Reinhardt.

THE GENERA OF FISHES

PART II

1833

164. AGASSIZ (1833). *Recherches sur les poissons fossiles*. II; IV (first part; second part of Vol. II issued in 1844; part of Vol IV in 1833).

LOUIS AGASSIZ.

Catopterus Agassiz, II, 3; orthotype *C. ovalis* Ag. (fossil). A synonym of *DIP-TERUS*.

Amblypterus Agassiz, II, 3, 28; orthotype *A. latus* Ag. (fossil).

Gyrolepis Agassiz, II, 6, 172; logotype *G. alberti* Ag. (fossil).

Tetragonolepis Agassiz, II, 6, 181; logotype *T. confluens* Ag. (fossil). Name preoccupied; a synonym of *DAPEDIUM* Leach.

Microps Agassiz, II, 10; orthotype *M. furcatus* Ag. (fossil). Name preoccupied; replaced by *PERIURGUS* Gistel, 1848.

Pygopterus Agassiz, II, 10; orthotype *P. humboldti* Ag. (fossil).

Notagogus Agassiz, II, 10; orthotype *N. pentlandi* Ag. (fossil).

Acrolepis Agassiz, II, 11; orthotype *A. sedgwicki* Ag. (fossil).

Pachycormus Agassiz, II, 11; orthotype *Elops macropterus* Blainv. (fossil).

Thrissops Agassiz, II, 12; orthotype *T. formosus* Ag. (fossil).

Megalurus Agassiz, II, 13; orthotype *M. lepidotus* Ag. (fossil). Name preoccupied in birds (Horsfield, 1821), replaced by *SYNERGUS* Gistel (1848), also preoccupied; suggested as substitute for both *UROCLIS* Jordan, 1919.

Aspidorhynchus Agassiz, II, 14; orthotype *Esox acutirostris* Blainv. (fossil).

Saurostomus Agassiz, II, 14; orthotype *S. esocinus* Ag. (fossil).

Sphærodon Agassiz, II, 15; logotype *S. gigas* Ag. (fossil). A synonym of *LEPIDOTES* Ag.; not *SPHÆRODON* Rüppell.

Pycnodus Agassiz, II, 16; orthotype *Zeus platessus* Blainv. (fossil).

Gyrodus Agassiz, II, 16; orthotype *G. macrophthalmus* Ag. (fossil).

Microdon Agassiz, II, 16; orthotype *M. elegans* Ag. (fossil). Name preoccupied in flies (Meigen, 1803), replaced by *PROSCINETES* Gistel, 1848, and, later, by *POLYPSEPHIS* Hay (1899).

Calamostoma Agassiz, II, 18; orthotype *Syngnathus breviculus* Blainv. (fossil).

Acanthodes Agassiz, II, 19; orthotype *Acanthoëssus bronni* Ag. (fossil). A substitute, apparently unnecessary, for *ACANTHOËSSUS* Ag. (1832).

Cyclopoma Agassiz, IV, 17; orthotype *C. gigas* Ag. (fossil).

Smerdis Agassiz, IV, 32; logotype *Perca minuta* Blainv. (fossil). Name preoccupied in insects; replaced by *DAPALIS* Gistel (1848).

Gasteronemus Agassiz, V, 17; logotype *G. rhombeus* Ag. (fossil). An extinct homologue of *MENE*.

165. BRANDT & RATZEBURG (1833). *Medizinische Zoologie*. II.

JOHANN FRIEDRICH BRANDT (1802-1879); J. T. C. RATZEBURG (1801-1871).

Huso Brandt & Ratzeburg, II, 3; orthotype *Acipenser huso* L. A synonym of *ICHTHYOCOLLA* Geoffroy, 1767, and of *STERLETUS* Raf., 1820.

Helops Brandt & Ratzeburg II, 3; orthotype ACIPENSER STELLATUS Pallas, 1768, = A. HELOPS Pallas, 1811.

Sterletus Brandt & Ratzeburg, II, 3, 349; orthotype ACIPENSER RUTHENUS L. Name spelled also STERLETA Müller) and STERLEDUS (Bon.). Name preoccupied; replaced by STERLETA GÜLDENSTÄDT, if binomial. STERLETUS Raf. (1820) is based on an American species, ACIPENSER SEROTINUS Raf., which is the same as ACIPENSER RUBICUNDUS Le Sueur, still earlier called ACIPENSER FULVESCENS by Rafinesque. This species belongs to the group or genus called ICHTHYOCOLLA by Geoffroy in 1767, and HUSO by Brandt & Ratzeburg in 1833.

166. COCCO (1833). *Osservazioni Peloritani*.

ANASTASIO COCCO (1799-1854).

Ruvettus Cocco, XIII, 18 (April, 1833); orthotype R. PRETIOSUS Cocco.

167. COCCO (1833). *Lettere al Signor Risso su alcuni pesci novelli*. Giorn. Sci. Lett. Sicilia, XLII.

ANASTASIO COCCO.

Tylosurus Cocco, XLII, No. 124; orthotype T. CANTRAINI Cocco = ESOX IMPERIALIS Raf. = SPHYRÆNA ACUS Lac.

168. COCCO (1833). *Su alcuni pesci de Mare di Messina*. Giorn. Sci. Lett. Sicilia, XLII.

ANASTASIO COCCO.

Mupus Cocco, 20; orthotype M. IMPERIALIS Cocco. The name LEIRUS Lowe, also of 1833, is preoccupied in beetles (1823) and must give place to MUPUS.

169. CUVIER & VALENCIENNES (1833). *Histoire naturelle des poissons*. IX. GEORGES CUVIER; ACHILLE VALENCIENNES.

Trachurus Cuvier & Valenciennes, IX, 6; haplotype SCOMBER TRACHURUS L. Same as TRACHURUS Raf., 1810.

Hynnus Cuvier & Valenciennes, IX, 95; orthotype H. GORENSIS Cuv. & Val.

Lactarius Cuvier & Valenciennes, IX, 237; haplotype SCOMBER LACTARIUS Bloch = LACTARIUS DELICATULUS Cuv. & Val.

Nauclerus Cuvier & Valenciennes, IX, 247; orthotype N. COMPRESSUS Cuv. & Val. Young of NAUCRATES Raf.

Porthmeus Cuvier & Valenciennes, IX, 255; orthotype P. ARGENTEUS Cuv. & Val.

Psenes Cuvier & Valenciennes IX, 259; orthotype P. CYANOPHRYS Cuv. & Val.

Gallichthys Cuvier & Valenciennes, IX, 264; orthotype GALLICHTHYS MAJOR Cuv. & Val. Substitute for GALLUS, preoccupied in birds; a synonym of ALECTIS Raf.

Lampugus Cuvier & Valenciennes, IX, 317; orthotype SCOMBER PELAGICUS L. A synonym of CORYPHÆNA L.

Aphredoderus (Le Sueur) Cuvier & Valenciennes, IX, 445; orthotype A. GIBBOSUS Le Sueur = SCOLOPSIS SAYANUS Gilliams. Also spelled APHRODEDIRUS and APHODODERUS by authors.

170. GRAY (1833). *The Illustrations of Indian Zoology, Chiefly Selected from the Collection of General Hardwicke*.

JOHN EDWARD GRAY.

This paper contains plates only, no diagnosis of the new genera being given.

Balitora Gray, II, pl. 5; haplotype B. BRUCEI Gray. A synonym of HOMALOPTERA Van Hasselt.

Bedula Gray, II, 88; logotype *B. NEBULOSA* Gray. A synonym of *NANDUS* Cuv. & Val., 1831.

Pterapon Gray, II, 88; haplotype *P. TRIVITTATUS* Gray = *SCIÆNA JARBUA* Forskål. A synonym of *THERAPON* Cuv.

Anaora Gray, II, 90; haplotype *A. TENTACULATA* Gray. (Name misprinted *AMORA*, but corrected in manuscript on the plate.) Species not identified; resembles *THYSANOPHRYS* Ogilby.

Apterygia Gray, II, 92; haplotype *A. RAMCARATE* Gray. A synonym of *RACONDA* Gray.

Tor Gray, II, 96; haplotype *CYPRINUS TOR* Ham. = *TOR HAMILTONI* Gray. Replaces *LABEOBARBUS* Rüppell.

Bengala Gray, II 96; haplotype *CYPRINUS ELANGA* Ham. Replaces *MEGARASBORA* Gthr.

Amanes Gray, II, 98; haplotype *A. HYSTRIX* Gray = *MONACANTHUS SCOPAS* Cuv.

Acarana Gray, II, 98; haplotype *OSTRACION AURITUS* Shaw. Also in *Ann Nat. Hist.*, I, 110, 1838.

Girella Gray, II, 98; haplotype *G. PUNCTATA* Gray.

171, 172. LOWE (1833). *Character of a New Genus and of Several New Species of* Proc. Zool. Soc. London, I.

RICHARD THOMAS LOWE (1802-1874).

Alepisaurus Lowe, 104; orthotype *A. FEROX* Lowe. A synonym of *PLAGYODUS* Steller, 1811, if the latter be deemed tenable, being given in the dative case only ("Plygyodontem") Often written *ALEPIDOSAURUS* by authors.

173. LOWE (1833). *Character of a New Genus and of Several New Species of Fishes from Madeira.* Proc. Zool. Soc. London, I.

RICHARD THOMAS LOWE

Leirus Lowe, 142; orthotype *L. BENNETTI* Lowe = *CENTROLOPHUS OVALIS* Cuv. & Val. = *MUPUS IMPERIALIS* Cocco, the three names of the same date. *LEIRUS* is preoccupied in beetles (Meigen, 1823) and gives place to *MUPUS* Cocco.

174. NARDO (1833). *De Skeponopodo novo piscium genere et de Guebucu Margravii: species illi cogniti: Isis.* Mem. Assemb. Nat. Vienna.

GIAN DOMENICO NARDO.

Skeponopodus Nardo, fasc. 416; orthotype *S. TYPUS* Nardo = *XIPHIAS IMPERATOR* Bl. & Schn. A synonym of *TETRAPTURUS* Raf.

175. REINHARDT (1833). *Bemärkningen til den Skandinaviske ichthyologie.* JOHANNES REINHARDT.

Silus Reinhardt, 11; orthotype *SALMO SILUS* Ascanius. Apparently a synonym of *ARGENTINA* L.

1834

176. AGASSIZ (1834). *Abgerissene Bemerkungen über fossile Fische.* Neues Jahrb. Mineralogie.

LOUIS AGASSIZ.

Ophiopsis Agassiz, 385; orthotype *O. PROCERUS* Ag. (fossil).

Saurichthys Agassiz, 386; orthotype *S. APICALIS* Ag. (fossil).

Propterus Agassiz, 386; orthotype *P. MICROSTOMUS* Ag. (fossil).

Caturus Agassiz, 387; orthotype *URÆUS NUCHALIS* Ag. (fossil). Substitute for *URÆUS* Ag., preoccupied.

Macrosemius Agassiz, 387; orthotype *M. ROSTRATUS* Ag. (fossil).

Belonostomus Agassiz, 388; orthotype *B. tenuirostris* Ag. (fossil).

Dercetis Agassiz, 389; orthotype *D. scutatus* Ag. (fossil).

177. AGASSIZ (1834). *Verhandlungen der Gesellschaft des vaterländischen Museums. Böhmen.*

LOUIS AGASSIZ.

Halec Agassiz, 67; orthotype *H. sternbergi* Ag. (fossil).

178. AGASSIZ (1834). *Recherches sur les poissons fossiles. V (part), 1834.*

LOUIS AGASSIZ.

Acanthonemus Agassiz, V, 27; orthotype *A. filamentosus* Ag. (fossil).

179. COSTA (1834). *Cenni zoologici, ossia descrizione sommaria delle specie nuovi di animali scoperti in diverse contrade del regno, nell' anno 1834.* (Naples.)

ORONZIO GABRIELE COSTA (1787-1867).

Branchiostoma Costa, 49; orthotype *LIMAX lanceolatus* Pallas; replaces *AMPHIOXUS* (Gray) Yarrell.

Nemotherus (Risso) Costa, fig. 9; orthotype *N. erythropterus* Risso. A synonym of *TRACHYPTERUS* (not verified).

180. GRIFFITH (1834). *The Class Pisces, Arranged by the Baron Cuvier, with Supplementary Additions by Edward Griffith and Charles Hamilton Smith.*

Carangus Griffith, 335; tautotype *SCOMBER CARANGUS* Bloch = *SCOMBER HIPPOS* L. A synonym of *CARANX* Lac. as restricted; same as *CARANGUS* Grd.

181. HENLE (1834). *Sur le Narcine, nouveau genre de raies electriques, etc.* Ann. Sci. Nat., II. (Also in German as *Ueber Narcine.*)

FRIEDRICH GUSTAV JACOB HENLE (1807-1855).

Narcine Henle, 31; orthotype *TORPEDO BRASILIENSIS* Ölfers.

182. MÜNSTER (1834). *Knochenhöhle bei Rabenstein, etc.* Neues Jahrb. Miner. GEORG MÜNSTER.

Undina Münster, 539; orthotype *U. penicillata* Münster (fossil).

183. QUOY & GAIMARD (1834). *Voyage de découvertes de "l'Astrolabe," etc.* (1826-29), sous le commandement de M. J. Dumont d'Urville.

JEAN RÉNÉ CONSTANTIN QUOY (1707-1778); PAUL GAIMARD (1790-1858).

Aspidontus (Cuvier) Quoy & Gaimard, 719; orthotype *A. tæniatus* Cuv. & Val. An ally of *PETROSCIRTES* Rüppell, distinguished by the lack of elevation of the anterior dorsal spines.

1835

184. AGASSIZ (1835). *Ueber die Familie der Karpfen.* Mem. Soc. Nat. Neufchâtel, I.

LOUIS AGASSIZ.

Acanthopsis Agassiz, I, 36; orthotype *COBITIS TÆNIA* L. Name preoccupied. A synonym of *COBITIS* L.

Phoxinus Agassiz, 37; orthotype *LEUCISCUS PHOXINUS* L. Same as *PHOXINUS* Raf. 1820.

Rhodeus Agassiz, I, 37; orthotype *CYPRINUS AMARUS* Bloch.

Chondrostoma Agassiz, I, 38; orthotype *CYPRINUS NASUS* L.

Aspius Agassiz, I, 38; tautotype *CYPRINUS ASPIUS* L.

Pelecus Agassiz, I, 39; orthotype *CYPRINUS CULTRATUS* L.

185. AGASSIZ (1835). *Recherches sur les poissons fossiles*. II.

LOUIS AGASSIZ.

Plectrolepis (Agassiz) II, 44; orthotype *P. RUGOSUS* Ag. (fossil). Name only; validated by Egerton, 1850. A synonym of *EURYNOTUS* Ag. = *NOTACMON* Gistel, 1848.

Megalodon Agassiz, II, 55; logotype *M. LEWESIENSIS* Ag. (fossil). Name preoccupied; a synonym of *PACHYRHIZODUS*.

Enchodus Agassiz, II, 55 (feuilleton); orthotype *ESOX LEWESIENSIS* Mantell (fossil).

Macropoma Agassiz, II, 55 (euilleton); orthotype *M. MANTELLI* Ag. (fossil).

Diplopterus Agassiz, II, 113; orthotype *D. MACROCEPHALUS* Ag. (fossil). Name preoccupied; replaced by *DIPLOPTERAX* McCoy (1885).

Pleiopterus Agassiz, II, 113; orthotype *OSTEOLEPIS MACROLEPIDOTUS* Val. (fossil). A synonym of *ASTROLEPIS*.

Cheiracanthus Agassiz, II, 125; orthotype *C. MURCHISONI* Ag. (fossil).

Cheirolepis Agassiz, II, 128; orthotype *C. TRAILLI* Ag. (fossil).

Cephalaspis Agassiz, II, 135; orthotype *C. LYELLI* Ag. (fossil).

Eurynotus Agassiz, II, 153; logotype *E. CRENATUS* Ag. (fossil). Name preoccupied; replaced by *NOTACMON* Gistel (1848).

Platysomus Agassiz, II, 6, 161; logotype *STROMATEUS GIBBOSUS* Blainv. (fossil). Name held to be preoccupied by *PLATYSOMA* Leach, 1817; replaced by *SCROTES* Gistel (1848); *UROPTERYX* (Ag.) Woodw. (1907) may be also regarded as a substitute.

186. AGASSIZ (1835). *Ueber das der Glarner-Schiefer-Formation nach ihren Fischresten*. Neues Jahrb. Mineral.

LOUIS AGASSIZ.

Carangopsis Agassiz, 293; orthotype *C. LATIOR* Ag. (fossil). Names only; validated in 1844.

Urosphen Agassiz, 293; orthotype *U. FISTULARIS* Ag. (fossil). Names only; validated in 1844.

Amphistium Agassiz, 294; orthotype *A. PARADOXUM* Ag. (fossil). Names only; validated in 1844.

Xiphopterus Agassiz, 295; orthotype *ESOX FALCATUS* Volta (fossil).

Pristigenys Agassiz, 299; orthotype *P. MACROPHTHALMUS* Ag. (fossil). Name only; described in 1839 (*Poiss. fossiles*, IV, 139).

Cœlogaster Agassiz, 304; orthotype *C. ANALIS* Ag. (fossil) (name only), and hence dating only from later usage.

Platinx Agassiz, 304; orthotype *P. ELONGATUS* Ag. (fossil). A synonym of *MONOPTEROS* Volta (1794).

Enchelyopus Agassiz, 307; orthotype *E. TIGRINUS* Ag. (fossil); name only; validated by Agassiz in 1844. Preoccupied; replaced by *PARANGUILLA* Blkr. (1864).

187. CUVIER & VALENCIENNES (1835). *Histoire naturelle des poissons*. X. (The series continued after the death of Cuvier, in 1832, until 1848, by

ACHILLE VALENCIENNES.)

Keris Cuvier & Valenciennes, 304, 1835; orthotype *KERIS ANGUINOSUS* Cuv. & Val. Often written *CERIS*: the young of *NASO* Lac.

188. GOTTSCHKE (1835). *Die seeländischen Pleuronectes-Arten*. Wiegmann's Archiv. der Naturgeschichte, II.

CARL MORITZ GOTTSCHKE (1808-1892).

Limanda Gottsche, 100; orthotype **PLEURONECTES LIMANDA** L.

Microstomus Gottsche, 150; orthotype **M. LATIDENS** Gottsche. Regarded as preoccupied by **MICROSTOMA** Risso, 1826; replaced by **CYNICOGLOSSUS** Bon.

Glyptocephalus Gottsche, 156; orthotype **PLEURONECTES SAXICOLA** Faber = **P. CYNOGLOSSUS** L.

Hippoglossoides Gottsche, 168; orthotype **H. LIMANDA** Gottsche = **PLEURONECTES LIMANDOIDES** Bloch.

Zeugopterus Gottsche, 178; orthotype **PLEURONECTES HIRTUS** Abildgard.

189. **JOANNIS** (1835). *Observations sur les poissons du Nil et descriptions de plusieurs espèces nouvelles*, etc. Mag. Zool., 1835.

L. DE JOANNIS.

Mochokus Joannis, pl. 8; orthotype **M. NILOTICUS** Joannis.

190. **MEYEN** (1835). *Reise in Peru*. I.

J. MEYEN.

Pygidium Meyen, I, 475; orthotype **P. FUSCUM** Meyen.

191. **MÜLLER** (1835). *Vergleichende Anatomie der Myxinoiden, der Cyclostomen mit durchbohrten Gaumen*. (Reprinted in *Arch. Naturg.*, Berlin, for 1846, 247.)

JOHANNES MÜLLER (1801-1858).

Sturio Müller, 77. (Sturgeons without opercle.) Type presumably **ACIPENSER STURIO** L. A synonym of **ACIPENSER** Ag.

Scaphirhynchus (Heckel) Müller, 77; footnote only; defined as lacking the quadrate bone; logotype **ACIPENSER PLATORHYNCHUS** Raf.

Bdellostoma Müller, 79 (248, reprint); orthotype **B. HEXATREMA** Müller; a substitute for **HEPTATREMA** Dum. as not correct in fact. Both are synonyms of **EPTATRETUS** Cloquet, 1818.

192. **DE LA PYLAIE** (1835). *Recherches en France, sur les poissons de l'océan, pendant les années 1832 et 1833*. Congrès Scientifique de France tenue a Poitiers, 1834.

M. DE LA PYLAIE (DE FOUGÈRES).

This singularly useless paper has been totally overlooked by all naturalists except Dr. Gill, who has noted Pylaie's use of the name **ARGYROSOMUS** (1835), at a date prior to that of Agassiz (1850). Besides the "new genera" enumerated below, the following new species are indicated by De la Pylaie:

SPINAX VITULINUS p. 527 ("tête qui rappelle un muffle de veau").

SCYLLIUM ATLANTICUM (527) ("trop différente," etc.).

SCYMNUS AQUITANENSIS (527) (la Sénille ou Chénille de l'île Dieu).

SQUALRAJA CERVICATA (527) ("pour le distinguer de l'ordinaire, que est acephale").

SQUALRAIA ACEPHALA (527) (= **SQUATINA SQUATINA**).

TORPEDO ELLIPTICA (527) ("d'après la structure de ses deux pectorales").

RAJABATIS MACROPHALLA (528) (Differing in length of clasper).

RAJABATIS MICROPHALLA (528). "Neuf autres espèces complètent ce genre; ce sont les **R. TRIPTERA**, **POLYACANTHA**, **VARIEGATA**, **TIGRINA**, **MONOLIFERA**, **FLORIGERA**, **MELUMPSECA**, **MOAICA**, **UNDULATA**.

HIPPOCAMPUS ATRICHUS (529) ("espèce de l'Océan").

HIPPOCAMPUS JUBATUS (529) ("des filamens qui composent, le long de son cou, une espèce de crinière peu fournie").

APTOCYCLUS OSTRACIODES (529). "Coffret." "Nouvelle espèce encore très bien caractérisée."

ANGUILLA VULGARIS, "mes variétés MACROCEPHALA, ORNITHORHINCHA, PLATYURA, également nouvelles pour la science" (529).

MURÆNA HIPPOCREPIS (529) "commune dans certain reservoirs des Salines, à l'Île de Noirmontier".

AMMODYTES PICTAVUS (529a) "qui s'en distingue par l'absence de dents, par le nombre des rayons et par la couleur de quelques parties de son corps".

MORRHUA VULGARIS CALLARINA (530), a variety "rare à île Dieu," etc.

GADUS ZONATUS (530), a "variety" of "GADUS BARBATUS".

MUSTELA RUBENS (530), "La Coche Rouge".

MUSTELA QUINQUECIRRHA (530), "a cinq barbillons".

BLENNIUS GATTORUGINE BITENTACULARIS (530).

BLENNIUS PICTAVUS (530), "nouvelles espèces".

BLENNIUS PIETI (530).

PTEROZYGUS BIEVRII (530).

GوبيUS NIGRICANAS (531), "habite les roches de la côte".

THYNNUS ATLANTICUS (531a), the albacore.

THYNNUS OCEANICUS (531a), the tunny.

TRIGLA MEGALOPHTHALMA (531a), "d'après la grosseur remarquable des yeux".

CRENILABRUS PHENODONTUS (532), "a grand dent".

CRENILABRUS MARMORATUS (532).

CRENILABRUS OXYCEPHALUS (532), "n'a pas de tache noir sur la queue; son museau est plus pointée".

SARGUS PULCHELLUS (532), "Ruscain, d'après sa chair rouge".

EXOCALLUS INSIGNIS (532a), new name for Boops boops (L).

PERCA OLONNENSIS (532a) ("nouvelle espèce").

PERCA INERMIS (532a). Name only.

ARGYROSOMUS PROCERUS (532a), "Baie de Bourgneuf".

CLUPEA ELONGATA (532a) "une variété N. du CLUPEA ALOSA, le corps beaucoup plus allongé que dans l'aloise ordinaire".

APTEROGASTERUS ROSTELLATUS (532a), "Jacquine" "D'après la forme de son museau".

LEUCISUS PICTAVA (533). "Chévénau" "le corps est moins large" (que dans le LEUCISCUS CHUB de Pennant).

LEUCISCUS OBTUSUS (533) "able ou petit verdon sans taches".

GOBIO PHOXINOIDES (533), "Goujon véronette".

COBITIS PARISIENSIS (534), "Loche Franche".

COBITIS PICTAVA (534), "repandu dans nos rivières".

SOLEA CUNEATA (534), "Sole sétan": "espèce mediocre, mais parfaitement caractérisée".

RHOMBUS GALLINULA (534), "poulette de mer".

Squalraia De la Pylaie, 526; orthotype SQUALRAIA ACEPHALA Pylaie = RAJA SQUATINA L. A synonym of SQUATINA; not SQUALORAIAIA Riley (1826).

Rajabatis De la Pylaie, 528; logotype RAJA MOSAICA Lac. (most of the other species named being left undescribed). A synonym of RAJA, possibly not intended as a generic name.

Aptocylus De la Pylaie, 529; orthotype "CYCLOGASTERUS VENTRICOSUS" Pallas (error for "CYCLOPTERUS"). Replaces CYCLOPTERICHTHYS Steind. (1861).

Pterozygus De la Pylaie, 530; orthotype P. BIEVRII De la Pylaie. "Une loche qui presente le singulier caractère d'avoir ses nageoires pectorales et thoracins réunies par paires." Probably a monstrous form of COBITIS L.

Exocallus De la Pylaie, 532 (a); orthotype E. INSIGNIS Pylaie (SPARUS BOOPS L.). Name a substitute for BOOPS, of which it is a needless synonym.

Apterogasterus De la Pylaie, 532a; orthotype *A. ROSTELLATUS* Pylaie, "la Jacquine". (Not identified.)

Argyrosomus De la Pylaie, 534; orthotype *A. PROCERUS* De la Pylaie. A synonym of *SCLÆNA* L. as restricted by Cuvier; same as *PSEUDOSCLÆNA* Blkr.

193. RÜPPELL (1835). *Neue Wirbelthiere zu der Fauna von Abyssinien gehörig*. 2 vols.

EDUARD RÜPPELL.

Enneapterygius Rüppell, 2; orthotype *E. PUSILLUS* Rüppell.

Gazza Rüppell, 4; orthotype *G. EQUULÆFORMIS* Rüppell.

Pseudochromis Rüppell, 8; logotype *P. OLIVACEUS* Rüppell.

Halichæres Rüppell, 14; logotype *H. BIMACULATUS* Rüppell (as restricted by Jordan & Snyder). Regarded as preoccupied by *HALICHÆRUS*, a genus of seals; replaced by *HEMIULIS* Sw. (1839) and by *CHÆROJULIS* Gill (1864).

Lutodeira (Kuhl) Rüppell, 18; orthotype *MUGIL CHANOS* Forskål. A synonym of *CHANOS* Lac.

Xenodon Rüppell, 53; orthotype *BALISTES NIGER* Lac. Preoccupied in reptiles; replaced by *ZENODON* Sw. (1839), by *ODONUS* Gistel (1848), by *ERYTHRODON* Rüppell (1852) and by *PYRODON* Kaup (1853). The validity of the oldest of these substitute names, *ZENODON*, may be questioned. See record of Swainson (1839).

Nebrius Rüppell, 62; orthotype *NEBRIUS CONCOLOR* Rüppell. Name regarded as preoccupied by *NEBRIA* Latreille and *NEBRIS* Cuv.; replaced by *NEBRODES* Garman. But the root is different: νεβρίοι of Aristotle, referring to some shark.

Uropterygius Rüppell, 83; orthotype *N. CONCOLOR* Rüppell. This would be a synonym of *GYMNOMURÆNA* Lac., as restricted by Bleeker, 1864, but not as limited by Kaup, 1856.

Sphærodon Rüppell, 113; orthotype *SCIÆNA GRANDOCULIS* Forskål. A synonym of *MONOTAXIS* Bennett.

Pristotis Rüppell, 128; orthotype *P. CYANOSTIGMA* Rüppell. A synonym of *POMACENTRUS* Lac.

194. SCHULTZE (1835). *Versammlung von Naturforschers in Bonn*.

CARL AUGUST SIGMUND SCHULTZE (1795-1877).

Hexabranchus Schultze; orthotype presumably *BDELLOSTOMA HEXATREMA* Müller. If so, a synonym of *EPTATRETUS* Cloquet. According to Agassiz, a genus of lampreys, presumably one with six gills; no further details available.

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195. AGASSIZ (1836). *Recherches sur les poissons fossiles*. III.

LOUIS AGASSIZ.

Zygobatis Agassiz, III, 79; orthotype *Z. JUSSIEUI* Ag. A synonym of *RHINOPTERA* Kuhl.

Odontaspis Agassiz, III, 87; orthotype *O. FEROX* Ag. A synonym of *CARCHARIAS* Raf. as now limited.

Spinacorhinus Agassiz, III, 94; orthotype *S. POLYSPONDYLUS* Ag. (fossil). A synonym of *SQUALORAIA* Riley.

Goniodus Agassiz, III, 183; orthotype *SQUALUS SPINOSUS* Gmelin = *SQUALUS BRUCUS* Bonnaterre. A synonym of *ECHINORHINUS* Blainv.

Amblyurus Agassiz, III, 220; orthotype *A. MACROSTOMUS* Ag. (fossil). A synonym of *DAPEDIUM* Leach.

196. AGASSIZ & HIBBERT (1836). *On the Fresh-water Limestones of Burdiehouse, etc.* Trans. Roy. Soc. Edinburg.
LOUIS AGASSIZ; SAMUEL HIBBERT (1782-1848).
Megalichthys Agassiz, VIII, 202; orthotype M. HIBBERTI Ag. (fossil).
197. CUVIER & VALENCIENNES (1836). *Histoire naturelle des poissons*. XI.
ACHILLE VALENCIENNES.
Omobranchus (Ehrenberg) Cuvier & Valenciennes, XI, 87; orthotype **BLENNECHIS FASCIOLATUS** Cuv. & Val. A synonym of **ASPIDONTUS** Cuv.
Cestræus Cuvier & Valenciennes, XI 157; type **CESTRÆUS PLICATILIS** Cuv. & Val. Near **AGONOSTOMUS** Bennett, 1830. Not **CESTREUS** Klein, nor of McClelland, nor Gronow.
Dajaus Cuvier & Valenciennes, XI, 164; haplotype **MUGIL MONTICOLA** Bancroft; near **AGONOSTOMUS** Bennett, 1800.
Nestis Cuvier & Valenciennes, XI, 167; logotype **NESTIS CYPRINOIDES** Cuv. & Val. = **AGNOSTOMUS TELFAIRI** Bennett, 1830. A synonym of **AGONOSTOMUS** Bennett.
Blennechis Cuvier & Valenciennes, XI, 279; logotype **B. FILAMENTOSUS** Cuv. & Val. A synonym of **PETROSCIRTES** Rüppell.
Chasmodes Cuvier & Valenciennes, XI, 295; logotype **BLENNIUS BOSQUIANUS** Lac.
Cristiceps Cuvier & Valenciennes, XI, 402; haplotype **C. AUSTRALIS** Cuv. & Val.
Gunnellus Cuvier & Valenciennes, XI, 419; tautotype **BLENNIUS GUNNELLUS** L. A synonym of **PHOLIS** (Gronow) Scopoli (1777), and of **MURÆNOIDES** Lac. (1803). Often spelled **GUNELLUS**.
198. HECKEL (1836). *Scaphirhynchus, eine Fischgattung aus der Ordnung der Chondropterygier mit freien Kiemen.* Ann. Wien. Mus., I.
JOHANN JAKOB HECKEL (1790-1857).
Scaphirhynchus Heckel, I, 71; orthotype **S. RAFINESQUEI** = **ACIPENSER PLATORYNCHUS** Raf. Regarded preoccupied by **SCAPHORHYNCHUS** Maximilian, 1831, a genus of birds; replaced by **SCAPHIRHYNCHOPS** Gill (see Müller 1835).
199. HECKEL & FITZINGER (1836). *Monographische Darstellung der Gattung Acipenser.* Ann. Wien. Mus., I.
JOHANN JAKOB HECKEL; LEOPOLD J. FITZINGER (1802-1884).
Antaceus Heckel & Fitzinger, 293; orthotype **ACIPENSER SCHYPA** Eichw.
Lioniscus Heckel & Fitzinger, 370; orthotype **ACIPENSER GLABER** Fitzinger.
200. LIÉNARD (1836). *Sur quelques poissons de l'île Maurice.* L'Institut, IV.
ÉLIZÉ LIÉNARD.
Platysoma Liénard. Name preoccupied; said to be near **DULES** (KUHLIA). (Very doubtful; here quoted from Scudder. I fail to find the name in question elsewhere.)
201. MÜNSTER (1836). *Capitosaurus in Keupersandstein; Gyræodus multidentis in Jurakalk; achte Belonostomus-Art; Lebias und Cyprinus in Braunköhle im Fichtelgebirge, etc.* Neues Jahrb. Mineral.
GEORG MÜNSTER.
Aellopos Münster, 581; orthotype **A. ELONGATUS** Münster (fossil). An extinct ally of **RHINOBATUS**.
202. RICHARDSON (1836). *Back's Narrative of an Arctic Land Expedition.*
JOHN RICHARDSON (1787-1865)
Stenodus Richardson (appendix), 521; orthotype **SALMO MACKENZIEI** Rich. Replaces **LUCIOTRUTTA** Gthr. (1866).

203. RICHARDSON (1836). *Fauna Borcali-Americana*. III.

JOHN RICHARDSON.

Temnistia Richardson, III, 59; orthotype BLEPSIAS VENTRICOSUS Eschscholtz. A synonym of HEMILEPIDOTUS Cuv.

Salvelinus (Nilsson) Richardson, III, 169; tautotype SALMO SALVELINUS L. First use in the singular of Nilsson's group name "SALVELINI". Replaces BAIONE Dekay (1842) and UMBLA Rapp (1854).

204. RÜPPELL (1836). *Neuer Nachtrag zu Beschreibungen und Abbildungen neuer Fische, im Nil entdeckt*. Museum Senckenberg, II.

WILHELM PETER EDUARD SIMON RÜPPELL.

Labeobarbus Rüppell, II, 14; haplotype LABEOBARBUS NEDGIA Rüppell. Probably not distinct from TOR Gray, 1833.

Varicorhinus Rüppell, II, 14; orthotype V. BESO Rüppell = LABEO VARICORHINUS Cuv. & Val. VARICORHINUS Rüppell is said by Berg to include CAPOËTA, SCAPHIODON, DILLONIA, GYMNOSTOMUS, ONYCHOSTOMA, PTEROCAPOËTA and ACAPOËTA. Some of these have doubtless standing as subgenera.

205. YARRELL (1836). *A History of British Fishes*, etc. 2 vols.

WILLIAM YARRELL (1784-1856).

Amphioxus (Gray) Yarrell, 468; orthotype LIMAX LANCEOLATUS Pallas. A synonym of BRANCHIOSTOMA Costa.

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206. AGASSIZ (1837). *Recherches sur les poissons fossiles*. III (part), V (part).

LOUIS AGASSIZ.

Onchus Agassiz, III, 6; orthotype O. MURCHISONI Ag. (fossil).

Ctenacanthus Agassiz, III, 10; logotype C. MAJOR Ag. (fossil).

Oracanthus Agassiz, III, 13; orthotype O. MULLERI Ag. (fossil).

Gyracanthus Agassiz, III, 17; orthotype G. FORMOSUS Ag. (fossil).

Tristychius Agassiz, III, 21; orthotype T. ARCUATUS Ag. (fossil).

Ptychacanthus Agassiz, III, 22; orthotype P. SUBLÆVIS Ag. (fossil). A synonym of TRISTYCHIUS Ag.

Sphenacanthus Agassiz, III, 23; orthotype S. SERRULATUS Ag. (fossil).

Nemacanthus Agassiz, III, 25; logotype N. MONILIFER Ag. (fossil).

Leptacanthus Agassiz, III, 27; logotype L. SEMISTRIATUS Ag. (fossil). Fossil spines of a CHIMÆROID, perhaps synonymous with GANODUS.

Asteracanthus Agassiz, III, 31; orthotype A. ORNATISSIMUS Ag. (fossil).

Pristeacanthus Agassiz, III, 35; orthotype P. SECURIS Ag. (fossil).

Myriacanthus Agassiz, III, 37; logotype M. PARADOXUS Ag. (fossil).

Hybodus Agassiz III, 41; orthotype H. PLICATILIS Ag. (fossil).

Leiacanthus Agassiz, III, 55; orthotype L. FALCATUS Ag. (fossil).

Pleuracanthus Agassiz, III, 66; orthotype P. LÆVISSIMUS Ag. (fossil). Name preoccupied; probably replaced by ORTHACANTHUS Ag.; perhaps the spine of the forms known from the teeth, as DIPLODUS, DICRANODUS, DITTODUS, etc.

Hypsodon Agassiz, V, 100; logotype MEGALODON LEWESIENSIS Mantell (fossil). Specimens not all of one genus, some belonging to PORTHEUS Cope (1872).

207. BONAPARTE (1834-1841). *Iconografia della fauna italica, per le quattro classi degli animali vertebrati*. Tome, III. *Pesce*.

CARLO LUCIANO BONAPARTE (Principe de Canino e de Musignano).

This sumptuous and finely illustrated work was issued in separate fascicles from 1832 to 1842. The fishes seem to begin with fascicle VI in 1837. The last are in fascicle 160, probably issued in 1841. There is no paging, and exact dates, except for a few fascicles, are inaccessible to me. I therefore divide the work into three parts, 1837, 1840 and 1841. Fascicles 156 to 160 are subsequent to Swainson's *Natural History*, 1839, from which they quote. So far as I know, no question of nomenclature hinges on these uncertain dates. Troschel (*Archiv. Naturg.*) gives the date 1884 for fascicles "Lieferungen" VI to XI, 1837 for XVI to XX, 1838 for XXVI to XXIII, 1839 for XXIV to XXVI, and 1840 for XXVII; but these "deliveries" seem not to correspond to the fascicles.

Orectolobus Bonaparte, fasc. 7; orthotype *SQUALUS BARBATUS* Gmelin (date probably 1837). Replaces *CROSSORHINUS* M. & H.

Cerna Bonaparte fasc. 10*; orthotype *PERCA GIGAS* Brünnich = *LABRUS GUAZA* L. (1837). A synonym of *EPINEPHELUS* Bloch, as now restricted.

Cynicoglossus Bonaparte, fasc. 19; orthotype *PLEURONECTES CYNOGLOSSUS* Nilsson (not of L.) = *PLEURONECTES KITT* Walbaum. Equivalent to *MICROSTOMUS* Gottsche, which it replaces if *MICROSTOMUS* is regarded as preoccupied by *MICROSTOMA* Cuv. (1817).

Batis Bonaparte, fasc. 21*; orthotype *RAJA RADULA* De la Roche (called *DASYBATUS* in fasc. 68). A synonym of *RAJA* L.

Læviraja Bonaparte, fasc. 21*; orthotype *RAJA OXYRHYNCHUS* L.

Microchirus Bonaparte, fasc. 26*; orthotype *PLEURONECTES MICROCHIRUS* De la Roche. Same as *MONOCHIRUS* and *MONOCHIR* Cuv., not of Rafinesque; replaces *BUGLOSSUS* Gthr.

Monochirus Bonaparte, fasc., 26*; orthotype *SOLEA MONOCHIR* Bon. Same as *MONOCHIRUS* Raf.

Pampus Bonaparte, 48; orthotype (not named) but plainly *STROMATEUS CANDIDUS* Cuv. & Val. Replaces *STROMATEIODES* Blkr., 1851.

"Diamo il nome di PAMPUS al secundo sottogenere in cui accogliamo quelle specie che non hanno pinne ventrali e portano innanzi ai raggi dorsale e dell' anale parecchie spine terminale superiormente da una lamina tagliente." (Bonaparte.) These peculiar trenchant spines are found in all the species called *STROMATEOIDES*, though buried in the flesh in the adult.

Dasybatus Bonaparte, fasc. 68; orthotype *RAJA RADULA* De la Roche. Called *BATIS* on fascicle 21; also written *DASYBATUS*. A synonym of *RAJA* L.; not *DASYATIS* Raf. (1837).

Membras Bonaparte, fasc. 91; orthotype an "exotic species", evidently *ATHERINA MARTINICA* Cuv. & Val.

Menidia Bonaparte, fasc. 91; orthotype an "exotic species," evidently *ATHERINA MENIDIA* L.

Hepsetia Bonaparte, fasc. 91; orthotype *ATHERINA BOYERI* Risso.

Cyprinopsis (Fitzinger) Bonaparte, fasc. 92; orthotype *CYPRINUS CARASSIUS* L. (1838). A synonym of *CARASSIUS* Nilsson.

Squalius Bonaparte, fasc. 96; logotype *SQUALIUS TYBERINUS* Bon. = *LEUCISCUS SQUALUS* Bon. A synonym of *LEUCISCUS* Cuv.

Scardinius Bonaparte, fasc. 96; orthotype *LEUCISCUS SCARDAFA* Bon.

Telestes Bonaparte, fasc. 103; orthotype *TELESTES MUTICELLUS* Bon. (1839).

Plagiusa Bonaparte, fasc. 120; orthotype (by implication) *PLEURONECTES PLAGIUSA* L. A substitute for *PLAGUSISA* Cuv.; preoccupied ("non *PLAGUSIA*, nome di crustaceo"). A synonym of *SYMPHURUS* Raf. (1810).

208. CANTRAINE (1837). *Memoire sur un poisson nouveau (Acanthoderma temmincki) trouvé dans le canal de Messine*. Journ. de Bruxelles.

FRANÇOIS JOSEPH CANTRAINE (1801-1863).

Acanthoderma Cantraine, X, 1-19; orthotype *A. TEMMINCKI* Cantraine. A synonym of *RUVETTUS* Cocco.

209. CUVIER & VALENCIENNES (1837). *Histoire naturelle des poissons*. XII. ACHILLE VALENCIENNES.

Oplopomus (Ehrenberg) Cuvier & Valenciennes, XII, 66 (reference in synonymy); orthotype *O. PULCHER* Ehrenb. = *Gobius oplopomus* Cuv. & Val. Replaces *CENTROGOBIUS* Blkr., 1874.

Cryptocentrus (Ehrenberg) Cuvier & Valenciennes, XII, 111; orthotype *C. MELEAGRIS* Ehrenb. = *Gobius cryptocentrus* Cuv. & Val. Replaces *PARAGOBIOUS* Blkr. Ehrenberg's manuscript, *Zoologia: Pisces*, quoted by Cuvier and Valenciennes, seems never to have been published.

Amblyopus Cuvier & Valenciennes, XII, 139; logotype *TÆNOIDES HERRMANNIANUS* Lac. A synonym of *TÆNIOIDES* Lac. 1803

Apocryptes (Osbeck) Cuvier & Valenciennes, XII, 143; orthotype *Gobius pectinirostris* Gmelin = *Apocryptes chinensis* Osbeck, 1757, and in later translations (after 1758). *Apocryptes* Cuv. & Val. is plainly a revival of Osbeck's genus, and the name ought not legitimately to be transferred to another group as has been done by Günther and Bleeker. Bleeker makes *Gobius bato* Ham. the type of *Apocryptes* Cuv. & Val., as this is the first species named by these authors under *Apocryptes*. But it would seem that Osbeck's haplotype (*A. chinensis*) must be accepted in the revival of his genus, in which case *Apocryptes* (Osbeck) Cuv. & Val. replaces *Boleophthalmus* Cuv. & Val. (p. 198). As against the views here expressed, it may be urged that the pre-Linnæan name *Apocryptes* Osbeck has no standing and *Apocryptes* Cuv. & Val. is really based on *Gobius bato*, a species actually in hand, as the description shows. *Apocryptes chinensis* (*pectinirostris*) was included by error, it being a member in fact of the genus *Boleophthalmus* Cuv. & Val., as later writers have recognized. It may be urged further that the first designation of type of *Apocryptes* is that of Bleeker, who places it on *Apocryptes bato*.

A further point is that accepting *Apocryptes* in the Osbeckian sense leaves the genus of Cuvier and Valenciennes without a name, unless we accept *Gobileptes* Sw. But the scales in *Gobileptes* are described as large, while those of *Apocryptes bato* are "exceedingly small". Swainson obviously drew his *Gobileptes* from the description of *Gobius acutipinnis* Cuv. & Val., later abandoning the genus, which he does not again notice. Among the numerous genera of sharp-tailed gobies, I have not found the proper place for (*Gobileptes acutipinnis*). This generic name, *Gobileptes* Sw., with *no species mentioned*, is interpreted by Bleeker as referring to *Gobius bato* and hence is regarded by him as a synonym of *Apocryptes*.

Boleophthalmus Cuvier & Valenciennes, XII, 198; orthotype *Gobius bodderti* Pallas. Perhaps a synonym of *Apocryptes* (Osbeck) Cuv. & Val., which see above.

Philypnus Cuvier & Valenciennes, XII, 235; haplotype *Gobiomorus dormitor* Lac. Same as *Gobiomorus* Lac., as first restricted by Jordan. Gill has later limited the name to *Valenciennesa* Blkr.

Hemerocœtes Cuvier & Valenciennes, XII, 311; haplotype **CALLIONYMUS ACANTHORHYNCHUS** Forster.

Platyptera (Kuhl & Van Hasselt) Cuvier & Valenciennes, XII, 320; orthotype **P. ASPRO** Van Hasselt. Name preoccupied, replaced by **RHYACICHTHYS** Boulenger, 1901.

Halieutæa Cuvier & Valenciennes, XII, 455; haplotype **HALIEUTÆA STELLATA** Cuv. & Val.

210. EGERTON (1837). (*Catalogue of Fossil Fishes.*)

PHILIP DE MALPAS GREY EGERTON (1806-1881).

Isurus (Agassiz) Egerton; orthotype **I. MACROURUS** Ag. (fossil). Name only; validated by Agassiz, 1844. Name preoccupied; replaced by **SAURICHTHYS** Woodw., 1901.

211. FITZINGER (1837). *Vorläufiger Bericht über eine höchst interessante Entdeckung Dr. Natterers in Brasil.* Oken's *Isis*.

LEOPOLD JOSEPH FRANZ FITZINGER.

Lepidosiren Fitzinger, 379; orthotype **L. PARADOXA** Fitzinger.

212. FRIES (1837). *Pterycombis, ett nytt fisksläkte från Ishafvet.* Handl. K. Vetensk. Akad. Stockholm.

BENGT FREDRIK FRIES (1799-1839).

Pterycombis Fries, 14; orthotype **P. BRAMA** Fries.

213. GEINITZ (1837). *Thüringischen Muschelkalk.*

HANS BRUNO GEINITZ (1814-1900).

Acrodus (Agassiz) Geinitz, 21; orthotype **A. GAILLARDOTI** Ag. (fossil). (Also in *Poissons fossiles*, III, 139, 1838.)

214. HECKEL (1837). *Ichthyologische Beiträge.* Ann. Wiener Mus., II.

JOHANN JAKOB HECKEL.

Scorpænopsis Heckel, II, 158; orthotype **SCORPÆNA NESOGALLICA** Cuv. & Val.

Trachydermus Heckel, II, 159; orthotype **T. EFASCIATUS** Heckel. Name three times preoccupied as **TRACHYDERMA**; replaced by **CENTRIDERMICHTHYS** Rich.

215. KUTORGA (1837). *Beitrag zur Geognosie und Paleontologie Dorpats und seiner nächsten Umgebungen.* St. Petersburg, IV, for. 1835. Zweiter Beitrag, 1837.

STEPAN SEMENOVICH KUTORGA (1812-1861).

Ichthyosauroides Kutorga, II, 35; orthotype **TRIONYX SPINOSUS** Kutorga (fossil). Name rejected as inappropriate, the genus being supposed to be reptilian; an inadequate reason for change of name to **HETEROSTIUS** Asmuss, 1856.

216. MÜLLER & HENLE (1837). *Gattungen der Haifische und Rochen nach ihrer Arbeit, "Ueber die Naturgeschichte der Knorpelfische".* Ber. Akad. Wiss. Berlin.

JOHANNES MÜLLER; FRIEDRICH GUSTAV JAKOB HENLE.

Tæniura Müller & Henle, 117; logotype **TRYGON ORNATA** Gray = **RAJA LYMMA** Forskål.

217. MÜLLER & HENLE (1837). *On the Generic Characters of Cartilaginous Fishes, with Descriptions of New Genera.* Mag. Nat. Hist., II.

JOHANNES MÜLLER; FRIEDRICH GUSTAV JAKOB HENLE.

- Hemitrygon** Müller & Henle, 90; orthotype **TRYGON BENNETTI** M. & H.
Ginglymostoma Müller & Henle, 113; orthotype **SQUALUS CIRRATUS** Gmelin.
Scoliodon Müller & Henle, 114; orthotype **CARCHARIAS LATICAUDUS** M. & H.
Gymnura Müller & Henle, 117; orthotype **RAJA ASPERRIMA** Bl. & Schn. Name preoccupied; replaced by **UROGYMNUS** M. & H.
Himantura Müller & Henle, 400; orthotype **RAJA UARNAK** Forskål.
Urogymnus Müller & Henle, 434; logotype **RAJA ASPERRIMA** Bl. & Schn. Replaces **ANACANTHUS** Ehrenb. and **GYMNURA** M. & H., both preoccupied.

218. REDFIELD (1837). *Fossil Fishes of Connecticut and Massachusetts with a Notice of an Undetermined Genus*. Ann. Lyc. Nat. Hist. N. Y.

JOHN HOWARD REDFIELD (1825-1895).

- Catopterus** Redfield, IV, 39; orthotype **C. GRACILIS** Redfield (fossil). Preoccupied by **CATOPTERUS** Ag. (1833); replaced by **REDFIELDIUS** Hay (1899).

219. REINHARDT (1837). *Bythites, novum genus piscium*. Danske Vid. Selsk. Afh., VI.

JOHANNES CHRISTOPHER HAGEMANN REINHARDT.

- Bythites** Reinhardt, VI, 77; orthotype **B. FUSCUS** Reinh.

220. SMITH (1837). *On the Necessity for a Revision of the Groups Included in the Linnæan Genus Squalus*. Proc. Zool. Soc. London.

ANDREW SMITH.

- Poroderma** Smith, 85; logotype **SQUALUS AFRICANUS** Gmelin.

- Catulus** Smith, 85; orthotype **SCYLLIUM CAPENSE** Smith. Name preoccupied in insects, partly equivalent to **SCYLLIORHINUS** Blainv., 1816.

- Hemiscyllium** Smith, 86; logotype **SQUALUS OCELLATUS** Bonneterre.

- Carcharodon** Smith, 86; orthotype **CARCHARODON CAPENSIS** Smith = **SQUALUS CARCHARIAS** L.

- Leptocarias** Smith; *Ill. S. Afr. Zool.*; orthotype **TRIÆNODON SMITHI** Gray; quoted by Agassiz, *Nom. Zool.*, 1846; hence prior to **LEPTOCARCHARIAS** Gthr., 1870. Replaces **LEPTOCARCHARIAS**.

221. THOMPSON (1837). *Notes Relating to the Natural History of Ireland, with a Description of a New Genus of Fishes (Echiodon)*. Proc. Zool. Soc. London, V.

WILLIAM THOMPSON.

- Echiodon** Thompson, 55; orthotype **E. DRUMMONDI** Thompson. A synonym of **CARAPUS** Raf. (**FIERASFER** Cuv.).

1838

222. AGASSIZ (1838). *Recherches sur les poissons fossiles*. III, IV (parts). LOUIS AGASSIZ.

- Ptychopleurus** Agassiz, III, 67; orthotype **PTYCHACANTHUS FAUGASI** Ag. A fossil ally of **MYLIOBATIS**.

- Oxyrhina** Agassiz, III, 86; logotype **O. MANTELLI** Ag. (fossil). Name preoccupied, the genus not separable from the living genus **ISURUS** Raf. (1810).

- Orodus** Agassiz, III, 96; logotype **O. CINCTUS** Ag. (fossil.)

- Ctenoptychius** Agassiz, III, 99; orthotype **C. APICALIS** Ag. (fossil).

- Helodus** Agassiz, III, 104; orthotype **H. SIMPLEX** Ag. (fossil).

- Chomatodus** Agassiz, III, 107; logotype **C. CINCTUS** Ag. (fossil). An ally of **COCHLIODUS**, of undetermined value.

- Cochliodus** Agassiz, III, 113; orthotype *C. CONTORTUS* Ag. (fossil).
Strophodus Agassiz, III, 116; logotype *S. RETICULATUS* Ag. (fossil). A synonym of *ASTERACANTHUS*.
Ceratodus Agassiz, III, 129; orthotype *C. LATISSIMUS* Ag. (fossil). Considered by Gistel as preoccupied by the earlier *CERATODON*; *SCROPHA* Gistel (1848) has been proposed as a substitute.
Ctenodus Agassiz, III, 137; orthotype *C. CRISTATUS* Ag. (fossil). Considered as preoccupied by the earlier *CTENODON*. *RHADAMISTA* Gistel (1848) has been proposed as a substitute.
Acrodus Agassiz, III, 139; orthotype *A. GAILLARDOTI* Ag. (fossil). Name first published by Geinitz, 1837; regarded as preoccupied by *ACRODON* Zimm. (1832), a genus of beetles; *ADIAPNEUSTES* Gistel (1848) being suggested as substitute. But *THECTODUS* Meyer & Plieninger (1844) is earlier than *ADIAPNEUSTES*.
Hoplopteryx Agassiz, IV, 4; logotype *H. ANTIQUUS* Ag. (fossil).
Sphenocephalus Agassiz, IV, 4; orthotype *S. FISSICAUDUS* Ag. (fossil).
Acanus Agassiz, IV, 4; logotype *A. OVALIS* Ag. (fossil). (Printed first without explanation in *Neues Jahrb.*, 1834, 305).
Acrogaster Agassiz, IV, 5; orthotype *A. PARVUS* Ag. (fossil).
Podocys Agassiz, IV, 5, 135; orthotype *P. MINUTUS* Ag. (fossil).
Sparnodus Agassiz, IV, 10; orthotype *SPARUS MACROPHthalmus* Volta (fossil). (Printed first without definition, *Neues Jahrb.*, 1835, 300.)
Callipteryx Agassiz, IV, 12; logotype *C. SPECIOSUS* Ag. (fossil). (Also printed as name only in *Neues Jahrb.*, 1835, 293.)
Semiophorus Agassiz, IV, 14; orthotype *KURTUS VELIFER* Volta (fossil).
Pygæus Agassiz, IV, 16, 256; logotype *P. COLEANUS* Ag. (fossil).
Macrostoma Agassiz, IV, 15, 260; orthotype *M. ALTUM* Ag. (fossil). (Name twice preoccupied.)

223. BUCKLAND (1838). *On the Discovery of Fossil Fishes in the Bagshot Sands at Goldworth Hill, Four Miles North of Guildford.* *Proc. Geol. Soc. London*, II.

WILLIAM BUCKLAND (1784-1856).

- Edaphodon** Buckland, II, 687; logotype *CHIMÆRA MANTELLI* Buckland (fossil). According to Dr. L. Hussakof, the following genera based on Chimæroid teeth are all synonyms of *EDAPHODON*, namely, *ISCHYODUS*, *EUMYLODUS*, *PASSALODON*, *PSITTACODON*, *DIPRISTIS*, *DIPHRISSA* and *BRYACTINUS*.
Passalodon Buckland, II, 687; orthotype *CHIMÆRA AGASSIZI* Buckland (fossil). A synonym of *EDAPHODON*.
Ameibodon Buckland. This name is quoted by Agassiz from the *Proc. Zool. Soc. London*, 1839. I do not find it there.

224. COCCO (1838). *Su di alcuni salmonidi del mare di Messina; lettera al Ch. D. Carlo Luciano Bonaparte.* *Nuovi Ann. Sci. Nat.*, II.

ANASTASIO COCCO.

- Gymnocephalus** Cocco, 26; orthotype *G. MESSINENSIS* Cocco. Name preoccupied; a synonym of *CENTROLOPHUS* Lac.
Maurolicus Cocco, 32; orthotype *M. AMETHYSTINOPUNCTATUS* Cocco.
Odontostomus Cocco, 32; orthotype *O. HYALINUS* Cocco. Regarded as preoccupied by *ODONTOSTOMUS* (1887), a genus of mollusks; replaced by *EVERMANNELLA* Fowler.

225. GRAY (1838). (*Aracana*.) Ann. Hist., I.

JOHN EDWARD GRAY.

Aracana Gray, I, 110; logotype *A. ORNATA* Gray. (Printed without description in 1833.)

226. HECKEL (1838). *Fische aus Caschmir gesammelt und herausgegeben von Carl Freiherrn von Hügel*, etc. Wien.

JOHANN JAKOB HECKEL.

Schizothorax Heckel, 11; logotype *S. PLAGIOSTOMUS* Heckel as fixed by Bleeker, 1863; limited by Günther in 1868 to *S. CURVIFRONS*, etc. Same as *OREINUS* McCl., which it replaces if valid

227. LOWE (1838). *Piscium Maderensium species quædam novæ vel minus rite cognitæ breviter descriptæ*, etc. Trans. Cambridge Phil. Soc., VI.

RICHARD THOMAS LOWE.

Polymixia Lowe, VI, 198; orthotype *P. NOBILIS* Lowe.

228. MÜLLER & HENLE (1838). *Systematische Beschreibung der Plagiostomen*. Berlin (1838 to 1841).

JOHANNES MÜLLER; FREDERICK GUSTAV JAKOB HENLE.

Chiloscyllium Müller & Henle, 17; logotype *SCYLLIUM PLAGIOSUM* Bennett.

Crossorhinus Müller & Henle, 21; orthotype *SQUALUS BARBATUS* Gmelin. A synonym of *ORECTOLOBUS* Bon.

Stegostoma Müller & Henle 24; orthotype *SQUALUS FASCIATUS* Bloch.

Aprion Müller & Henle, 32; orthotype *CARCHARIAS ISODON* M. & H. Name preoccupied in fishes; replaced by *APRIONODON* Gill, 1861.

Hypoprion Müller & Henle, 34; orthotype *CARCHARIAS MACLOTI* M. & H.

Prionodon Müller & Henle, 36; logotype *SQUALUS GLAUCUS* L. Preoccupied; replaced by *PRIONACE* Cantor, 1849.

Triakis Müller & Henle, II, 36; orthotype *T. SCYLLIUM*. Spelled *TRIACIS* by authors.

Triænodon Müller & Henle, 55; orthotype *CARCHARIAS OBESUS* M. & H.

Galeocerdo Müller & Henle, 59; orthotype *G. TIGRINUS* M. & H.

Loxodon Müller & Henle, 61; orthotype *L. MACRORHINUS* M. & H.

Thalassorhinus Müller & Henle, 62; orthotype *T. VULPECULA* M. & H.

Carcharodon (Smith) Müller & Henle, 70; orthotype *C. RONDELETI* M. & H. = *SQUALUS CARCHARIAS* L.

Alopecias Müller & Henle, 74; orthotype *SQUALUS VULPES* Gmelin = *S. VULPINUS* Bonnaterre. A revised spelling of *ALOPIAS* Raf.

Triglochis Müller & Henle, II, 88; orthotype *SQUALUS FEROX* Risso. A synonym of *ODONTASPIS* Ag. and of *CARCHARIAS* Raf.

Centrophorus Müller & Henle, 89; logotype *C. GRANULATUS* M. & H. Perhaps a synonym of *DALATIAS* Raf.

Læmargus Müller & Henle, 93; orthotype *SQUALUS BOREALIS* Scoresby. A synonym of *SOMNIOSUS* Le Sueur.

Pristiophorus Müller & Henle, 98; orthotype *PRISTIS CIRRATUS* Latham.

Rhynchobatis Müller & Henle, 111; orthotype *RHINOBATUS LÆVIS* Bl. & Schn.

Syrrhina Müller & Henle, 113; logotype *S. COLUMNÆ* M. & H. as restricted by Jordan & Evermann, 1896, the earliest definite restriction I have found. Garman, 1912, indicates *SYRRHINA BREVIROSTRIS* M. & H. as type. This is a species referred to *ZAPTERYX* J. & G. As here understood, *SYRRHINA* is a synonym of *RHINOBATUS*.

Trygonorhina Müller & Henle, 124; orthotype *T. FASCIATA* M. & H.

Platyrrhina Müller & Henle, 125; logotype *RAJA SINENSIS* Lac. Name regarded as preoccupied by *PLATYRRHINUS*; replaced by *ANALITHIS* Gistel (1848) and later by *DISCOBATUS* Garman (1881).

Astrape Müller & Henle, 130; logotype *RAJA CAPENSIS* Gmelin. A synonym of *NARKE* Kaup, 1826.

Uraptera Müller & Henle, 155; logotype *U. AGASSIZI* M. & H.

Sympterygia Müller & Henle, 155; orthotype *S. BONAPARTII* M. & H.

Pteroplatea Müller & Henle, 168; orthotype *RAJA ALTAVELA* L.

Hypolophus Müller & Henle, 170; orthotype *RAJA SEPHEN* Forskål. A synonym of *PASTINACHUS* Rüppell, if this name is accepted (not *PASTINACA* Nardo).

Tæniura Müller Henle, 171; logotype *RAJA LYMMA* Forskål.

Urolophus Müller & Henle, 173; logotype *RAJA CRUCIATA* Lac.

Trygonoptera Müller & Henle, 174; orthotype *T. TESTACEA* M. & H.

Aëtoplatea Müller & Henle, 175; orthotype *A. TENTACULATA* M. & H.

Ceratoptera Müller & Henle, 186; orthotype *CEPHALOPTERA VAMPIRUS* Mitchill. A synonym of *MANTA* Bancroft

Centrosyllium Müller & Henle, 191; orthotype *SPINAX FABRICII* Reinh.

229. MÜLLER & HENLE (1838). (*Plagiostomen.*) Charlesworth's Magazine of Natural History, 1838.

JOHANNES MÜLLER; FRIEDRICH HENLE.

Leptocharias Müller & Henle, II, 36; orthotype *TRIÆNODON SMITHI* Gray. Same as *LEPTOCARIAS* Smith, 1837.

230. NORDMANN (1838). *Bericht an die kaiserliche Akademie der Wissenschaften, über eine neue Fischgattung (Hexacanthus) aus der Familie der Gobioiden.* Bull. Acad. Sci. St. Petersburg, III.

ALEXANDER VON NORDMANN.

Hexacanthus Nordmann; orthotype *GOBIOUS MACROCEPHALUS* Pallas. Name regarded as preoccupied by *HEXACANTHA*; replaced by *BENTHOPHILUS* Eichw.

231. REINHARDT (1838). *Ichthyologische bidrag til den Grønlandske fauna, etc.* Danske Vid. Selsk. Afh. Kjöbenhavn, VII.

JOHANNES CHRISTOPHER HAGEMANN REINHARDT.

Himantolophus Reinhardt, 74; orthotype *H. GRÆNLANDICUS* Reinh.

Citharus Reinhardt, 116; orthotype *PLEURONECTES PLATESSOIDES* Fabricius, not of Röse, 1793, nor of Bleeker, 1862. A synonym of *HIPPOGLOSSOIDES* Gottsche.

Gymnelis Reinhardt, VII, 130; orthotype *OPHIDIUM VIRIDE* Fabricius.

Lycodes Reinhardt, VII, 153; logotype *L. VAHLI* Reinh.

232. SWAINSON (1838). *The Natural History of Fishes, Amphibians and Reptiles, or Monocardian Animals.* I.

WILLIAM SWAINSON (1789-1855).

Pedalion (Guilding) Swainson, I, 199; II, 195, 329; orthotype (*TETRODON MOLA* L.). A synonym of *MOLA* Kölr.

Ariosoma Swainson, I, 220; II, 195; (no type named); logotype, as restricted by Bleeker and by Swain, *OPHISOMA ACUTA* Sw. = *MURÆNA BALEARICA* De la Roche; replaced by *OPHISOMA* Sw., on II, 334; a name preoccupied; replaces *CONGERMURÆNA* Kaup and *CONGRELLUS* Ogilby. Several other generic names defined by Swainson in Vol. II (1839) are casually mentioned with a few words of comparison. *Tius BREVICEPS* (238, 343, 345), *CYPSILURUS* (I, 299). But when no question of priority arises, these need not be mentioned further.

- Breviceps** Swainson, I, 328; II, 189; orthotype *B. FILAMENTOSUS* Sw. = *ARIUS BAHIENSIS* Castelnau. Name preoccupied; replaced by *FELICHTHYS* Sw. II, 305. A synonym of *BAGRE* (Cuv.) Oken, as restricted to its tautotype.

1839

233. AGASSIZ (1839). *Künstliche Steinkerne von Konchylien und Fische*. Neues Jahrb. Mineral.

LOUIS AGASSIZ.

- Eugnathus** Agassiz, 118; logotype *E. MINOR* Ag. (fossil); regarded as preoccupied by *EUGNATHA*; replaced by *FURO* Gistel (1848).

234. AGASSIZ (1839). *Fishes of the Old Red Sandstone*. In Murchison's *Silurian System*.

LOUIS AGASSIZ.

- Holoptychus** Agassiz, 68; orthotype *H. NOBILISSIMUS* Ag. (fossil). Usually written *HOLOPTYCHIUS*.

- Sclerodus** Agassiz, 606; orthotype *S. PUSTULIFERUS* Ag.

- Thelodus** Agassiz, 606; orthotype *T. PARVIDENS* Ag. (fossil).

- Plectrodus** Agassiz, 606, 704; logotype *P. MIRABILIS* Ag. (fossil). A synonym of *SCLERODUS* Ag.

- Sphagodus** Agassiz (not quoted by Woodward). Name of an Ichthyodorulite or fossil fin-spine.

235. AGASSIZ (1839). *Recherches sur les poissons fossiles*. II, IV (part).

LOUIS AGASSIZ.

- Sphærodus** Agassiz, II, 215; logotype *S. CONICUS* Ag. (fossil). Not *SPHÆRODON* Rüppell.

- Pristigenys** Agassiz, IV, 136 orthotype *P. MACROPTHALMUS* Ag. (fossil). (Printed as name only in *Neues Jahrb.*, 1835, 299.)

- Ptychodus** Agassiz, III, 150; orthotype *P. MAMMILARIS* Ag. (fossil).

- Odonteus** Agassiz, IV, 178; orthotype *O. SPAROIDES* Ag. (fossil).

- Pterygocephalus** Agassiz, IV, 190; orthotype *P. PARADOXUS* Ag. (fossil). (Also as name only, *Neues Jahrb.*, 1835, 295.)

236. BONAPARTE (1839). *Systema Ichthyologicum*. Mem. Sci. Nat. Neuf châtél, II, 1839.

CHARLES LUCIEN BONAPARTE.

- Pristidurus** Bonaparte, II, 11; orthotype *GALEUS MELASTOMUS* Raf. Commonly written *PRISTIURUS*, but the form here given is apparently earlier.

237. CUVIER & VALENCIENNES (1839). *Histoire naturelle des poissons*. XIII, XIV.

ACHILLE VALENCIENNES.

- Cossyphus** Cuvier & Valenciennes, XIII, 102; logotype *BODIANUS BODIANUS* Bloch. Identical with *BODIANUS* Bloch, as restricted, and *HARPE* Lac. The name *COSSYPHUS* is also preoccupied.

- Acantholabrus** Cuvier & Valenciennes, XIII, 242; logotype *LUTJANUS PALLONI* Risso.

- Ctenolabrus** Cuvier & Valenciennes, XIII, 223; logotype *LABRUS RUPESTRIS* L.

- Bagrus** Cuvier & Valenciennes, XIV, 388; logotype *SILURUS BAJAD* Forskål, not *BAGRE* (Cuv.) Oken, which is *FELICHTHYS* Sw. *BAGRUS* is regarded as

preoccupied by BAGRE, both being forms of "Les BAGRES" Cuv. If so, it is replaced by PORCUS Geoffroy St. Hilaire, 1818.

238. LAY & BENNETT (1839). *Fishes*. (In the *Zoology of Captain Beechey's Voyage*.)

G. T. LAY; EDWARD TURNER BENNETT.

Peropus Lay & Bennett, 59; orthotype BLEPSIAS BILOBUS Cuv. & Val. Name preoccupied; replaced by HISTIOCORTUS Gill, 1888.

239. LOWE (1839). *A Supplement to a Synopsis of the Fishes of Madeira*. Proc. Zool. Soc. London, VII.

RICHARD THOMAS LOWE.

Callanthias Lowe, 76; orthotype C. PARADISÆUS = BODIANUS PELORITANUS Cocco.

Aphanopus Lowe, 79; orthotype A. CARBO Lowe.

Pompilus Lowe, 81; orthotype CORYPHÆNA POMPILUS L. = POMPILUS RONDELETI Lowe. A synonym of CENTROLOPHUS Lac.

Alysia Lowe, 87; orthotype A. LORICATA Lowe = SCOPELUS COCCOI Cocco. Name preoccupied; replaced by RHINSOCOPELUS Lütken.

Acanthidium Lowe, 91; logotype A. PUSILLUM Lowe, as restricted by Jordan and Evermann, 1896. Garman, 1913, chooses the second species named by Lowe, A. CALCEUS, a species of DEANIA, as the type. As first restricted, ACANTHIDIUM is a synonym of ETMOPTERUS Raf.

240. McCLELLAND (1839). *Indian Cyprinidæ*. Asiatic Researches, XIX.

JOHN McCLELLAND (1805-1875).

Oreinus McClelland, 273; logotype O. GUTTATUS McCl. Regarded by Gistel as preoccupied by OREINA, the name ENGLOTTOGASTER substituted for it. Probably a synonym of SCHIZOTHORAX Heckel.

Systemus McClelland, 284; logotype S. IMMACULATUS McCl.

Perilampus McClelland, 288; logotype CYPRINUS DEVARIO Ham. A synonym of BARILIUS.

Opsarius McClelland, 295; logotype O. MACULATUS McCl. Apparently a synonym of BARILIUS Ham.

Psilorhynchus McClelland, 300; logotype CYPRINUS SUCATIO Ham. A synonym of HOMALOPTERA Van Hasselt.

Aplocheilus McClelland, 301; logotype A. CHRYSOSTIGMUS McCl. = ESX PANCHAX Ham. Name corrected to HAPLOCHILUS Günther.

Schistura McClelland, 306; logotype COBITIS RUPECULA McCl. A synonym of BARBATULA Linck.

Gonorhynchus McClelland, 373; logotype G. BREVIS McCl. Not GONORHYNCHUS of Gronow and Scopoli (1777). A synonym of CROSSOCHEILUS Van Hasselt.

Hymenphysa McClelland, 443; logotype COBITIS DARIO Ham. Corrected to HYMENOPHYSa by Günther; a synonym of BOTIA Gray.

241. McCLELLAND (1839). *Observations on Six New Species of Cyprinidæ with an Outline of a New Classification of the Family*. Journ. Asiatic Soc. Benal, VIII, 941-947.

JOHN McCLELLAND.

Platycara McClelland, VIII, 947; orthotype P. NASUTA McCl. A synonym of GARRA Ham., and DISCOGNATHUS Heckel.

242. MITCHELL (1839). *Three Expeditions into the Interior of Eastern Australia*. Ed. II.

JAMES MITCHELL.

Tandanus Mitchell, I, 95; orthotype **PLOTOSUS TANDANUS** Mitchell; replaces **COPIDOGLANIS** Gthr., 1864.

243. MÜLLER (1839). *Vergleichende Anatomie der Myxinoiden, der Cyclostomen mit durchbohrten Gaumen*. IV. *Ueber das Gefäs System*. Abh. Akad. Wiss. Berlin, 1839.

JOHANNES MÜLLER.

Heteropneustes Müller, 243; orthotype **SILURUS FOSSILIS** Bloch. Said to be the same as **SILURUS SINGIO** Ham., 243 (also in *Wieg. Arch.*, 1839, 115). Replaces **SACCOBRANCHUS** Cuv. & Val., 1848.

Amphipnous Müller, 244; orthotype **UNIBRANCHAPERTURA CUCHIA** Ham.

Physogaster Müller, 252; orthotype **TETRAODON LUNARIS** Bl. & Schn. Name preoccupied; replaced by **GASTROPHYSUS** Müller. A synonym of **LAGOCEPHALUS** Swain.

Arothron Müller, 252; orthotype **A. TESTUDINARIUS** Müller = **TETRAODON RETICULARIS** Bl. & Schn. A synonym of **OVOIDES** Dum.

Cheilichthys Müller, 252; orthotype **TETRAODON TESTUDINEUS** L. A synonym of **SPHEROIDES** Dum.

Chelonodon Müller, 252; orthotype **TETRODON PATOCA** Ham.

244. MÜNSTER (1839). *Ueber einige merkwürdige Fische aus dem Kupferschiefer und dem Muschelkalk*. Beiträge zur Petrefactenkunde.

GEORG MÜNSTER.

Ascalabos Münster, I, 112; orthotype **A. VOITHI** Münster (fossil). A synonym of **LEPTOLEPIS**.

245. NARDO (1839). *Considerazioni sulla famiglia dei pesci Mola, e sui caratteri che li distinguono*. Ann. Sci. Lombardo-Veneto, X.

GIOVANNI DOMENICO NARDO.

Pallasia Nardo, V, 10, 112; orthotype **P. PALLASI** Nardo. A larval form of **MOLA** Kölr.

Ranzania Nardo, V, 10, 105; orthotype **TETRAODON TRUNCATUS** Retzius.

246. OWEN (1839). *On a New Species of the Genus Lepidosiren of Fitzinger and Natterer, L. Annectens*. Proc. Linn. Soc. London, 1839, I, 27-32.

RICHARD OWEN (1810-1890).

Protopterus Owen, 27; orthotype **LEPIDOSIREN ANNECTENS** Owen.

247. OWEN (1839). (*Fossil Fishes.*) Report British Association for 1838 (1839). RICHARD OWEN.

Dictyodus Owen, 142; orthotype **D. DESTRUCTOR** Owen (fossil) (1854).

248. RANZANI (1839). *Dispositio familiæ Molarum in genera et in species*. Novi Comment. Acad. Sci. Inst. Bonon., III.

CAMILLO RANZANI.

Ozodura Ranzani, 81; orthotype **O. ORSINI** Ranzani = **MOLA MOLA** (L). A synonym of **MOLA** Kölr.

Tympanomium Ranzani, 81; orthotype **T. PLANCI** Ranzani. A synonym of **MOLA**.

Trematopsis Ranzani, 81; orthotype **T. WILLUGHBEII** Ranzani. A synonym of **MOLA**.

249. RICHARDSON (1839). *Description of Fishes Collected at Port Arthur in Van Diemen's Land*. Proc. Zool. Soc. London, VII.

JOHN RICHARDSON.

Latris Richardson, 98; orthotype *L. HECATEIA* Rich.

Nemadactylus Richardson, 98; orthotype *N. CONCINNUS* Rich. Spelled *NEMATO-DACTYLUS* by Gill.

250. STORER (1839). *A Report on the Fishes of Massachusetts*. Boston Journ. Nat. Hist., II.

DAVID HUMPHREYS STORER (1804-1891).

Cryptacanthodes Storer, 28; orthotype *C. MACULATUS* Storer.

251. SWAINSON (1839). *The Natural History of Fishes, Amphibians and Reptiles or Monocardian Animals*. II.

WILLIAM SWAINSON.

In a review of Swainson's *Genera of Fishes*, Proc. Acad. Nat. Sci. Phila., 1882, page 272, Dr. Joseph Swain has made identifications of all of the series Swainson's genera, indicating a logotype for each. This designation of type must stand in every case, except when a prior indication has been made, as was done in a few cases by Bonaparte and by Bleeker. Swainson's work is perhaps the last and certainly the most unwelcome of an unfortunate series to which belong Scopoli's *Introductio*, Fischer's *Zoognosia*, Rafinesque's *Analyse de la Nature*, works which treat of the whole scope of Ichthyology, adding new genera here and there, but without special investigation of the animals concerned, leaving their generic names imperfectly defined as a burden to the real students who must give to these names their final meaning. Of the 153 new names introduced by Swainson, about 30 must be retained on the score of priority of date, but there is not a dozen of the whole number based on any clear understanding of the relations of the species indicated. In Chapter I of Vol. 2, on pages 167 to 197, Swainson gives an analytical key to the genera he recognizes. In this part no species are mentioned and in several cases the genera bear other names when they appear later in the regular text in Chapter II of Vol. 2 (197-339).

Erosa Swainson, II, 61; tautotype *SYNANCEIA EROSA* Langsdorff; type not indicated but understood from context, and from the generic name chosen. The genus is valid and was revived by Jordan & Starks (1904).

Trichosomus Swainson, II, 61, 265; logotype *APISTUS TRACHINOIDES* Cuv. & Val. Accidentally spelled also *TRICHOPHASIA* on page 61. Regarded as preoccupied by *TRICHOSOMA*, a genus of worms, and by *TRICHOSOMUS*, a genus of beetles; replaced by *VESPICULA* Jordan & Rich. *PROSOPODASYNS* Cantor, originally a substitute name for *APISTUS*, is transferred by Günther to *A. TRACHINOIDES*, an arrangement apparently not allowable, as Cuvier does not mention that species among "les *APISTES*". *TRICHOPHASIA*, an error, not a new name, seems also ineligible.

Trichophasia Swainson, II, 61; (used evidently by error of proof-reader for *TRICHOSOMUS*) which form appears before and after on page 61 and formally on page 279.

Clinitrachus Swainson, II, 75; II, 276; orthotype (on p. 75) *BLENNIUS VARIABILIS* Raf., a species not mentioned on page 276, hence *B. SUPERCILIOSUS* L., a species of *CLINUS*, was indicated as type by Swain. A synonym of *CRISTI-CEPS* Cuv. & Val. (1836).

- Blennitrachus** Swainson, II, 78; II, 274; orthotype *PHOLIS QUADRIFASCIATUS* Wood. A synonym of *CHASMODES* Cuv.
- Cichlaurus** Swainson, II, 173; haplotype (230) *LABRUS PUNCTATUS* Bloch. Later called *CICHLASOMA*, which name it should replace.
- Dendrochirus** Swainson, II, 180; logotype *PTEROIS ZEBRA* Cuv. & Val.
- Pteropterus** Swainson, II, 180; logotype (p. 264) *PTEROIS RADIATUS* Cuv. & Val. A synonym of *PTEROIS* Cuv.
- Psilosomus** Swainson, II, 183; logotype *TÆNIOIDES HERRMANNIANUS* Lac. A synonym of *TÆNIOIDES* Lac.
- Gobileptes** Swainson, II, 183; no type named; orthotype intended (as is evident from Swainson's description) *GوبيUS ACUTIPINNIS* Cuv. & Val. "like *GوبيUS*, but the caudal lanceolate and the scales large". Bleeker (1876) has, however, fixed the type, none having been named before, on *GوبيUS BATO* Ham. This raises a question in nomenclature already noted under *APOCRYPTES* (1837):
- Salmostoma** Swainson, II, 184; logotype *CYPRINUS BACAILA* Ham. on page 284, where the genus is called *SALMOPHASIA*. Replaces *SECURICULA* Gthr., 1868.
- Scrophicephalus** Swainson, II, 187; no type named, *MORMYRUS CASCHIVE* Hasselquist intended ("dorsal fin single, very long; snout produced"). A synonym of *MORMYRUS* L., as restricted by Gill (1862).
- Ariosoma** Swainson, II, 194; logotype as restricted by Bleeker, 1864, *OPHISOMA ACUTA* Sw. = *MURÆNA BALEARICA* De la Roche. Replaces *CONGERMURÆNA* Kaup (1856) and *CONGRELLUS* Ogilby 1898.
- Leiodon** Swainson, II, 194; logotype *LEIOSOMUS MARMORATUS* Sw. = *TETRAODON CUTCUTIA* Ham., as defined by Bleeker (1865). Swain restricts the name *LEIOSOMUS* as later substituted by Swainson for *LEIODON*, to *LEIOSOMUS LÆVISSIMUS* Sw., which is *TETRAODON SPENGLERI* Bloch, a species of *SPHEROIDES*. *LEIODON* Sw. has precedence over *LEIODON* Owen, 1841, and replaces *MONOTRETA* Bibron.
- Canthigaster** Swainson, II, 194; logotype *TETRAODON ROSTRATUS* Bloch. Called *PSILONOTUS* later in the text; replaces *ANOSMIUS* Peters.
- Cromileptes** Swainson, II, 201; logotype *SERRANUS ALTIVELIS* Cuv. & Val. Restricted by Bleeker (1875) to *S. ALTIVELIS*, thus replacing *SERRANICHTHYS* Blkr. Later restricted by Swain to *EPINEPHELUS GIGAS*.
- Cynichthys** Swainson, II, 201; haplotype *PERCA FLAVOPURPUREA* Bennett = *HOLOCENTRUS FLAVOCÆRULEUS* Lac. A synonym of *EPINEPHELUS* (not *PLECTORHYNCHUS* as stated by Swain).
- Variola** Swainson, II, 202; haplotype *V. LONGIPINNA* Sw. = *PERCA LOUTI* Forskål.
- Uriphæton** Swainson, II, 202; orthotype *SERRANUS PHAËTON* Cuv. & Val. = *U. MICROLEPTES* Sw. This genus is based on a made-up fish, a *CEPHALOPHOLIS*, with the tail of a *FISTULARIA* attached. A synonym of *CEPHALOPHOLIS* Bl. & Schn.
- Elastoma** Swainson, II, 202; type *ETELIS OCULATUS* (Cuv. & Val.). A synonym of *ETELIS* Cuv.
- Rabdophorus** Swainson, II, 211; haplotype *CHÆTODON EPHIPIUM* Bloch. A subdivision of *CHÆTODON*.
- Genicanthus** Swainson, II, 212; logotype *HOLACANTHUS LAMARCKI* (Cuv.) A synonym of *HOLACANTHUS* Lac.
- Microcanthus** Swainson, II, 215; haplotype *CHÆTODON STRIGATUS* Cuv., a wilful misprint for *MICRACANTHUS*.

- Chrysiptera** Swainson, II, 216; logotype GLYPHIDODON AZUREUS Q. & G. A subgenus under ABUDEFDUF.
- Microgaster** Swainson, II, 216; haplotype ETROPLUS CORUCHI Cuv. & Val. = CHÆTODON MACULATUS Bloch. Equivalent to PARETROPLUS Blkr. A synonym of ETROPLUS Cuv. & Val. as restricted.
- Chætolabrus** Swainson, II, 216; logotype CHÆTODON SURATENSIS Bloch. A synonym of ETROPLUS Cuv.
- Chrysoblephus** Swainson, II, 221; haplotype SPARUS GIBBICEPS Cuv. A section under SPARUS L.
- Argyrops** Swainson, II, 221; haplotype SPARUS SPINIFER Forskål. A section under SPARUS L.
- Calamus** Swainson, II, 221; haplotype PAGELLUS CALAMUS Cuv. & Val. = CALAMUS MEGACEPHALUS Sw.
- Lithognathus** Swainson, II, 222; haplotype SPARUS CAPENSIS Cuv.
- Nemipterus** Swainson, II, 223; haplotype DENTEX FILAMENTOSUS Cuv. Replaces SYNAGRIS Gthr., 1859.
- Thalassoma** Swainson, II, 224; haplotype LABRUS PURPUREUS Rüppell. Stands in place of JULIS Gthr., not of Cuvier.
- Urichthys** Swainson, II, 224; logotype LABRUS LUNULATUS Rüppell. A synonym of CHEILINUS Lac.
- Crassilabrus** Swainson, II, 225; haplotype CHEILINUS UNDULATUS Rüppell. A section under CHEILINUS Lac.
- Leptoscarus** Swainson, II, 226; haplotype SCARUS VAIGIENSIS Q. & G. = SCARUS SPINIDENS Cuv. = CALLIODON VAIGIENSIS Cuv. & Val. Replaces CALOTOMUS Gilbert, and CALLIODON Cuv.; not CALLYODON of Gronow nor CALLIODON of Bl. & Schn.
- Hemistoma** Swainson, II, 226; haplotype SCARUS PEPO Bennett = HEMISTOMA RETICULATA Sw. A synonym of CALLYODON Gronow or SCARUS Forskål.
- Erychthys** Swainson, II, 226; logotype LABRUS CROICENSIS Bloch. A synonym of CALLYODON Gronow or SCARUS Forskål.
- Petronason** Swainson, II, 226; logotype CORYPHÆNA PSITTACUS L. as restricted by Bleeker and by Swain. A synonym of CALLYDODON or SCARUS.
- Pachynathus** Swainson, II, 226 (misprint for PACHYGNATHUS); haplotype P. TRIANGULARIS Sw., based on RAHTEE YELLAKAH Russell = BALISTES CAPISTRATUS Shaw. Name preoccupied as PACHYGNATHUS; replaced by SUFFLAMEN Jordan, 1917. The International Commission of Nomenclature has decided that PACHYNATHUS is to be regarded as a misprint, hence identical with PACHYGNATHUS.
- Chlorurus** Swainson, II, 227; haplotype SCARUS GIBBUS Rüppell. A synonym of CALLYODON or SCARUS.
- Amphiscarus** Swainson, II, 227; SCARUS FUSCUS Griffith. A synonym of SIGANUS Forskål.
- Sparisoma** Swainson, II, 227; haplotype SCARUS ABILDGAARDI Bloch. Equivalent to SCARUS Gthr., which it replaces; not SCARUS of Forskål, which should stand as CALLYODON Gronow, if Gronow's names are allowed.
- Hemiulis** Swainson, II, 228; logotype LABRUS GUTTATUS Bloch, as restricted by Bonaparte (*Fauna Italica*, 1841). Swain (1882) chose CHEILIO AURATUS Q. & G. as type regarding HEMIULIS as a synonym of CHEILIO. If HALICHÆRES Rüppell is regarded as preoccupied by HALICHÆRUS, HEMIULIS must replace it instead of CHÆROJULIS Gill.

- Cynædus** Swainson, II, 229; logotype *LABRUS RUPESTRIS* Bloch, as restricted by Bonaparte, *LABRUS TINCA*, as restricted by Swain. Swainson offers this name as a substitute for *CRENILABRUS* Cuv., of which he wrongly assigns *LUTIANUS VERRES*, a *BODIANUS*, as type. *CYNÆDUS* Sw. (not of Gronow or Scopoli) is a synonym of *CTENOLABRUS* Cuv. & Val.
- Astronotus** Swainson, II, 229; haplotype *LOBOTES OCELLATUS* Spix. Replaces *ACARA* Heckel and *HYGROGONUS* Gthr., 1862.
- Thalliurus** Swainson, II, 230; haplotype *LABRUS BLOCHI* = *LABRUS FULIGINOSUS* Lac. Replaces *HEMIGYMNUS* Gthr., 1864.
- Labristoma** Swainson, II, 230; logotype *PSEUDOCROMIS OLIVACEUS* Rüppell. A needless substitute for *PSEUDOCROMIS* Rüppell, 1835.
- Cichlasoma** Swainson, II, 230; haplotype *LABRUS PUNCTATUS* Bloch. Called *CICHLAURUS* on page 173; equivalent to *HEROS* Heckel (1840) as restricted; apparently *CICHLAURUS* should stand.
- Ichthycallus** Swainson, II, 232; logotype *LABRUS JULIS* L., as restricted by Bonaparte (1839). Swain has chosen (1882) *LABRUS SEMIPUNCTATUS* as type, a species of *CORIS* Lac. Jordan later took the first species named, *DIMIDIATUS*, as type, a species of *IRIDIO*. *ICHTHYCALLUS* is a synonym of *JULIS* Cuv. & Val. "CHLORICHTHYS and *ICHTHYCALLUS*, confused jumble of species, may well be disposed of as synonyms of *THALASSOMA* and *CORIS*, respectively, although several other genera are represented in each." (Swain.)
- Eupemis** Swainson, II, 232; haplotype *LABRUS FUSIFORMIS* Rüppell. A synonym of *CHEILIO* Lac.
- Chlorichthys** Swainson, II, 232; logotype *LABRUS BIFASCIATUS* Bloch, as restricted by Swain. Bonaparte selects as type *LABRUS PAVO* Hasselquist, a species not mentioned by Swainson. A synonym of *THALASSOMA* Sw.
- Zanclurus** Swainson, II, 239; type *HISTIOPHORUS INDICUS* Cuv. & Val. A synonym of *ISTIOPHORUS* Lac.
- Zyphothyca** Swainson, II, 239; type *GEMPYLUS COLUBER* Cuv. & Val.; for *XIPHO- THECA* Montague. A synonym of *GEMPYLUS* Cuv.
- Leiurus** Swainson, II, 242; logotype *GASTEROSTEUS ACULEATUS* L. A synonym of *GASTEROSTEUS* L.
- Polycanthus** Swainson, II, 242; type *GASTEROSTEUS SPINACHIA* L. A synonym of *SPINACHIA* Fleming, 1825. *POLYCANTHUS* is also preoccupied.
- Chirostoma** Swainson, II, 242; haplotype *ATHERINA HUMBOLDTIANA* Cuv. & Val.
- Meladerma** Swainson, II, 243; haplotype *M. NIGERRIMA* Sw. = *ELACATE PONDICERRIANA* Cuv. & Val. A synonym of *RACHYCENTRON* Kaup (1826), and of *ELACATE* Cuv. (1831).
- Platylepes** Swainson, II, 247; haplotype *SCOMBER LACTARIUS* Bl. & Schn. A synonym of *LACTARIUS* Cuv. & Val.
- Argyrlepes** Swainson, II, 247; haplotype *ARGYRLEPES INDICA* Sw., based on *MITTA PARAH* of Russell, pl. 156, a species of *LEIOGNATHUS*. A synonym of *LEIOGNATHUS* Lac.
- Alepes** Swainson, II, 248; haplotype *ALEPES MELANOPTERA* Sw., based on *WORI PARAH* Russell, pl. 155, apparently the same as *CARANX NIGRIPINNIS* Day, a species of *HEMICARANX*; apparently replaces *HEMICARANX* Blkr.
- Zonichthys** Swainson, II, 248; type *SCOMBER FASCIATUS* Bloch. A section or sub-genus under *SERIOLA*.
- Hamiltonia** Swainson, II, 250; logotype *H. OVATA* Sw. = *CHANDA NAMA* Ham. (fig. 37) as fixed by Swain (1882). *HAMILTONIA* is given as a substitute for

CHANDA Ham., and the fixation of type for the substitute decides that of the original name. CHANDA NAMA is the orthotype of BOGODA Blkr., a genus well defined, AMBASSIS BOGODA being the type species. Swainson's second species, CHANDA LALA Ham., which he spells LATA, belongs to Bleeker's genus PSEUDAMBASSIS. This was chosen as type of CHANDA by Fowler, and still later C. RUCONIUS by Jordan, but Swain's choice of type must hold. HAMILTONIA and BOGODA are therefore both synonyms of CHANDA Ham.

Platysomus Swainson, II, 250; logotype VOMER BROWNI Cuv. & Val. A synonym of VOMER; name preoccupied.

Ctenodon Swainson, II, 255; logotype CTENODON RUPPELLI Sw. = CHÆTODON SOHAL Forskål, not CTENODON Bon. nor of Ehrenberg. A synonym of HEPATUS Gronow, TEUTHIS L. and ACANTHURUS Forskål.

Callicanthus Swainson, II, 256; haplotype ASPISURUS ELEGANS Rüppell = HARPURUS LITURATUS Forster. A section or genus near NASO.

Zebrasoma Swainson, II, 256; haplotype ACANTHURUS VELIFER Bloch.

Xiphichthys Swainson, II, 259; haplotype GYMNETRUS RUSSELLI Shaw. A synonym of REGALECUS Brünnich. (Also, II, 46.)

Xiphasia Swainson, II, 259; type "ZIPHASIA SETIFER" Sw. Replaces NEMOPHIS Kaup (1858) and XIPHOGADUS Gthr. (1862).

Nemotherus (Rafinesque) Swainson (II, 260); orthotype N. ERYTHROPTERUS Raf. Quoted from Rafinesque's *Specchio delle Scienze*, I, 101, 1815. This is evidently a slip for NEMOCHIRUS Raf. NEMOTHERUS (Risso) Costa is a synonym of TRACHYPTERUS. NEMOCHIRUS seems to be an ally of STYLEPHORUS, as yet unrecognized.

Ornichthys Swainson, II, 262; logotype TRIGLA PUNCTATA Bloch. A synonym of PRIONOTUS Lac.

Pteroleptus Swainson, II, 264; haplotype PTEROLEPTUS LONGICAUDA Sw., (KODIPUNGI Russell). A synonym of PTEROIS Cuv.

Macrochyrus Swainson, II, 264; haplotype SCORPÆNA MILES Bennett. A synonym of PTEROIS Cuv.

Brachyrus Swainson, II, 264; logotype PTEROIS ZEBRA Cuv. & Val. A synonym of DENDROCHIRUS Sw., not BRACHYOCHIRUS Nardo. Name spelled BRACHIRUS when first used, page 71.

Pteropterus Swainson, II, 264; haplotype PTEROIS RADIATUS Cuv. & Val.

Platypterus Swainson, II, 265; logotype TÆNIONOTUS LATOVITTATUS Lac. Name preoccupied; replaced by TETRAROGE Gthr., 1860.

Pterichthys Swainson, II, 265; logotype SCORPÆNA CARINATA Bl. & Schn. A synonym of APISTUS Cuv., to be used if that name is regarded as preoccupied by APISTES, etc.; not PTERICHTHUS Commerson (1803), nor PTERICHTHYS Ag.

Gymnapistes Swainson, II, 265; logotype APISTUS MARMORATUS Cuv. & Val. Replaces PENTAROGE Gthr.

Synanchia ("Cuvier") Swainson, 268; a variant of SYNANCEJA: (S. EROSA).

Bufichthys Swainson, II, 268; logotype SCORPÆNA HORRIDA L. which is also type of SYNANCIDIUM Müller, 1844. Where BUFICHTHYS is first mentioned on page 180 it has the definition still earlier assigned to EROSA and here given to "SYNANCHIA". Gill therefore regards it as a synonym of EROSA Sw., rather than as equivalent of SYNANCIDIUM Müller.

Trachicephalus Swainson, II, 268; haplotype SYNANCEIA ELONGATA Cuv. & Val. Preoccupied by TRACHYCEPHALUS, 1838, a genus of reptiles. Replaced by POLYCAULUS Gthr.

- Ichthyscopus** Swainson, II, 269; logotype *URANOSCOPUS INERMIS* Cuv. & Val. Replaces *ANEMA* Gthr.
- Enophrys** Swainson, II, 271; haplotype *COTTUS CLAVIGER* Cuv. & Val.
- Gymnocanthus** Swainson, II, 271; haplotype *COTTUS VENTRALIS* Cuv. & Val. Replaces *PHOBETOR* Kröyer, 1844, and *ELAPHOCOTTUS* Sauvage. This name should read *GYMNACANTHUS*. There seems to be no classical warrant for Swainson's persistent use of "CANTHUS" (κάνφος, a donkey) to mean spine (ἄκανθα).
- Canthirhynchus** Swainson, II, 272; haplotype *COTTUS MONOPTERYGIUS* Bloch. A synonym of *ASPIDOPHOROIDES* Lac. (1802).
- Hippocephalus** Swainson, II, 272; logotype *AGONUS SUPERCILIOSUS* Pallas, as restricted by Gill, 1861. A synonym of *PERCIS* Scopoli (1777), not *PERCIS* of Klein, nor of Cuvier.
- Chirolophis** Swainson, II, 275; haplotype *BLENNIUS YARRELLI* Cuv. & Val. = *BLENNIUS ASCANII* Walbaum. Replaces *BLENNIOPS* Nilsson (1855) and *CARELOPHUS LOPHUS* Kröyer.
- Erpichthys** Swainson, II, 275; logotype *SALARIAS QUADRIPINNIS* Rüppell. A synonym of *SALARIAS* Cuv.
- Rupiscartes** Swainson, II, 275; haplotype *SALARIAS ALTICUS* Cuv. & Val. = *BLENNIUS TRIDACTYLUS* Bl. & Schn. Equivalent to *ALTICUS* Commerson, but the latter may not be eligible
- Cirripectes** Swainson, II, 275; haplotype *SALARIAS VARIOLOSUS* Cuv. & Val. A synonym of *ALTICUS* or *RUPISCARTES*.
- Blennophis** Swainson, II, 276; logotype *CLINUS ANGUILLARIS* Cuv. & Val., not *BLENNOPHIS* Val. (1844), which is *OPHIOBLENNIUS* Gill.
- Labrisomus** Swainson, II, 277; logotype *CLINUS PECTINIFER* Cuv. & Val. Often written *LABROSOMUS*; replaces *LEPISOMA* Dekay, 1842.
- Ophisomus** Swainson, II, 277; haplotype *BLENNIUS GUNNELLUS* L. Substitute for *GUNNELLUS* Cuv. & Val. A synonym of *PHOLIS* Scopoli (1777) and *MURÆNOIDES* Lac. (1803).
- Ognichodes** Swainson, II, 278; type *GOBIOIDES BROUSSONNETI* Lac., a needless substitute for *GOBIOIDES* Lac. Same as *AMBLYOPUS* Cuv. & Val.
- Scartelaos** Swainson, II, 279; logotype *GOBIOUS VIRIDIS* Ham. Replaces *BOLEOPS* Gill, 1863.
- Ruppellia** (misprinted *RUPELLIA*) Swainson, II, 281; orthotype *GOBIOUS ECHINOCEPHALUS* Rüppell. Preoccupied, replaced by *PARAGOBIODON* Blkr. (1879).
- Amphichthys** Swainson, II, 282; haplotype *BATRACHUS RUBIGENES* Sw., from Pernambuco. This fish is said to have but one dorsal fin and no teeth on the palate. It is undoubtedly based on *BATRACHUS CRYPTOCENTRUS* Cuv. & Val. It therefore replaces *MARCGRAVIA* Jordan (1886) as also the substitute name, *MARCGRAVICHTHYS* Ribeiro.
- Salmophasia** Swainson, II, 284; logotype *CYPRINUS BACALLA* Ham. (*S. OBLONGA* Sw.). Called *SALMOSTOMA* on page 184. A synonym of *SALMOSTOMA*, which replaces *SECURICULA* Gthr. 1868).
- Chedrus** Swainson, II, 285; haplotype *CHEDRUS GRAYI* Sw. = *CYPRINUS CHEDRA* Ham. A synonym of *BARILIUS* Ham.
- Esomus** Swainson, II, 285; haplotype *ESOMUS VITTATUS* Sw. = *CYPRINUS DAURICA* Ham. Replaces *NURIA* Cuv. & Val. (1842).
- Clupisudis** Swainson, II, 286; haplotype *SUDIS NILOTICA* Ehrenb. Replaces *HETEROTIS* Ehrenb. (1843).

- Laurida** Swainson, II, 287; logotype *SALMO FÆTENS* L. A synonym of *SYNODUS* Bl. & Schn.
- Triurus** Swainson, II, 288; haplotype *TRIURUS MICROCEPHALUS* Sw. = *OSMERUS NEHEREUS* Ham. A synonym of *HARPODON* Le Sueur. Preoccupied by *TRIURUS* Lac. (1800).
- Mormyrhynchus** Swainson, II, 291; haplotype *M. GRONOVII* Sw. = *ANOSTOMUS* Gronow. Same as *ANOSTOMUS* (Gronow), Scopoli (1777) = *SCHIZODON* Ag., 1829).
- Trichosoma** Swainson, II, 292; haplotype *TRICHOSOMA HAMILTONI* Sw.; preoccupied by *TRICHOSOMUS* Sw., 265; and by *TRICHOSOMA* Rudolphi (1819), a genus of worms. Equivalent to *THRISSA* Cuv. (1817), not of Rafinesque (1815); replaced by *THRISOCLES* Jordan (1917).
- Setipinna** Swainson, II, 292; logotype *CLUPEA PHASA* Ham. (*SETIPINNA MEGALURA* Sw.). Replaces *TELARA* Gthr. (1868).
- Platygaster** Swainson II, 294; logotype *CLUPEA AFRICANA* Bloch. Preoccupied in bees, 1911; replaced by *CLUPEA* of *ILISHA* Gray, 1846.
- Cypselurus** Swainson, II, 296 (misprinted *CYPSILURUS*); logotype *EXOCÆTUS* = *EXOCÆTUS FURCATUS* Mitchill. Based on a young at the chin. In view of Swainson's general carelessness of his proof-reading, the form *CYPSILURUS* has been adopted by the International Commission of Nomenclature. s Müller, 1843.
- Ramphistoma** Swainson, 296 orthotype *R. VULGARIS* Sw., same as *RAMPHISTOMA* BELONE (1801).
- Leptodes** Swainson, 296; logotype *CHAULIODUS SLOANI* Bl. & Schn. A synonym of *CHAULIODUS* Schn., (1801).
- Tilesia** Swainson, 296; orthotype *GADUS GRACILIS* Tilesius; synonym of *ELEGINUS* Tilesius.
- Cephus** Swainson, 296; haplotype *GADUS MACROCEPHALUS* Tilesius. A synonym of *GADUS*.
- Lepidion** Swainson, 296; haplotype *GADUS LEPIDION* Risso = *LEPIDION RUBESCENS* Sw., regressed by *LEPIDION* (1817), a genus of worms; replaced by *HALOPTILUS* (1862).
- Psetta** (Aristotle), II 302; haplotype *PLEURONECTES MAXIMUS* L. Sufficiently different from *PSETTUS* Cuv.
- Platophrys** Swainson, 296; haplotype *PLEURONECTES OCELLATUS* Spix & Ag. Replaces *PLATOPHYRUS* Blkr. (1856).
- Brachirus** Swainson, 296; logotype *PLEURONECTES ORIENTALIS* Bl. & Schn. Preoccupied by *BRACHYRUS* and *BRACHYRUS* Sw.; replaced by *EURYGLOSSA* Kaup (1856).
- Plagusia** (Brown), Swainson, 302; orthotype *P. BILINEATA* Bloch; name preoccupied, same as *PARAPLAGUSIA* Blkr.
- Sturisoma** Swainson, II, 304; haplotype *LORICARIA ROSTRATA* Spix.
- Hoplisoma** Swainson, II, 304; haplotype *CATAPHRACTUS PUNCTATUS* Bloch = *CORYDORAS GEOFFROYI* Lac. A synonym of *CORYDORAS* Lac., 1803.
- Silonia** Swainson, II, 305; logotype *PIMELODUS SILONDIA* Ham. = *SILONIA LURIDA* Sw. Replaces *SILUNDIA* Cuv. & Val. (1830).
- Felichthys** Swainson, II, 305; logotype, as restricted by Swainson and Bleeker, *F. FILAMENTOSUS* Sw. = *ARIUS BAHIIENSIS* Castelnau. Name a substitute for *BREVICEPS* Sw., preoccupied; a synonym of *BAGRE* (Cuv.) Oken (1817), as restricted through tautonymy.

- Cyclopium** Swainson, II, 305; haplotype *PIMELODUS CYCLOPUM* Humboldt = *CYCLOPIUM HUMBOLDTI* Sw. Replaces *STYGOGENES* Gthr. (1864).
- Clupisoma** Swainson, II, 306; haplotype *SILURUS GARUA* Ham., *CLUPISOMA ARGENTATA* Sw. Replaces *SCHILBEICHTHYS* Blkr., 1858.
- Pachypterus** Swainson, II, 306; logotype *SILURUS ATHERINOIDES* Bloch. Preoccupied in Coleoptera (1833); replaced by *PSEUDEUTROPIUS* Blkr. (1863).
- Pusichthys** Swainson, II, 307; haplotype *SCHILBE URANOSCOPIUS* Rüppell. A synonym of *SCHILBE* Cuv. (1817).
- Cotylephorus** Swainson, II, 308; haplotype *PLATYSTACUS COTYLEPHORUS* Bloch = *C. BLOCHI* Sw. A synonym of *PLATYSTACUS* Bloch, and of *ASPREDO* (Gronow) (Scopoli).
- Pteronotus** Swainson, II, 309; haplotype *HETEROBRANCHUS SEXTENTACULATUS* Ag. Preoccupied in mollusks; gives way to *RHAMDIS* Blkr. (1858).
- Diacantha** Swainson, II, 310; logotype *DIACANTHA ZEBRA* Sw. = *COBITIS GETO* Ham. (pl. 11). A synonym of *BOTIA* Gray, 1831.
- Canthophrys** Swainson, II, 310; logotype *CANTHOPHRYS ALBESCENS* Sw., based on *COBITIS* No. 3, Hamilton. Said by Swain to be a species of *BOTIA* Gray (1831).
- Acoura** Swainson, II, 310; logotype *COBITIS SAVONA* Ham. (*ACOURA OBSCURA* Sw.). A synonym of *NEMACHEILUS* Van Hasselt; spelled *ACOURUS* on an earlier page.
- Somileptes** Swainson II, 311; logotype *S. BISPINOSA* Sw. = *COBITIS GONGOTA* Ham. A synonym of *COBITIS* L., 1758.
- Platysqualus** Swainson, II, 311; logotype *SQUALUS TIBURO* Sw. (not of L.), based on a figure by Russell, representing *SPHYRNA TUDES* Cuv. A synonym of *SPHYRNA* Raf.
- Pterocephala** Swainson, II, 321; haplotype *RAJA GIORNA* Lac. A synonym of *MOBULA* Raf.
- Tetrosomus** Swainson, II, 323; haplotype *OSTRACION TURRITUS* Forskål. A section of *OSTRACION* L.
- Rhinesomus** Swainson, II, 324; logotype *OSTRACION TRIQUETER* Bloch. A synonym of *LACTOPHRYS* Sw.
- Lactophrys** Swainson, II, 324; logotype *OSTRACION TRIGONUM* L.
- Platycanthus** Swainson, II, 324; haplotype *OSTRACION AURITUS* Shaw. A synonym of *ARACANA* Gray.
- Rhinecanthus** Swainson, II, 325; logotype *BALISTES ORNATISSIMUS* Lesson = *BALISTES ACULEATUS* L. A synonym of *BALISTAPUS* Tilesius.
- Zenodon** (Rüppell) Swainson, II, 194, 325; orthotype *BALISTES NIGER* Lac. This name *ZENODON*, being ascribed to Rüppell, is probably a careless misprint of *XENODON* Rüppell. Preoccupied in reptiles by *XENODON* Boie, 1827. The name is spelled *ZENODON* on page 194 also. *ZENODON* is, however, accepted by Fowler (1904). If adopted, it replaces *ODONUS* Gistel (1848), *ERYTHRODON* Rüppell (1852) and *PYRODON* Kaup (1855)—all substitutes offered for *XENODON*.
- Chalisoma** Swainson, II, 325; logotype *BALISTES PULCHERRIMUS* Lesson = *BALISTES VETULA* L. A synonym of *BALISTES* L.
- Canthidermis** Swainson, II, 325; logotype *BALISTES ANGULOSUS* Q. & G.
- Melichthys** Swainson, II, 325; logotype *BALISTES RINGENS* Osbeck (not of L.). Name changed to *MELANICHTHYS* by Gthr. (1870).
- Capriscus** (Willughby) Swainson, II, 326; logotype *BALISTES ERYTHROPTERON* Lesson; a synonym of *BALISTAPUS* Tilesius.

- Leiurus** Swainson, II, 326; logotype *LEIURUS MACROPHthalmus* Sw., based on *LAMA YELLAKAH* Russell, pl. 22 = *BALISTES STELLARIS* Bl. & Schn. Name preoccupied by *LEIURUS* Sw. (p. 242); replaced by *ABALISTES* Jordan & Seale (1911).
- Chætodermis** Swainson, II, 327; logotype *MONOCANTHUS SPINOSISSIMUS* Q. & G.
- Psilocephalus** Swainson, II, 327; haplotype *BALISTES BARBATUS* Gray. Substitute for *ANACANTHUS* Gray (1831), which is preoccupied by Ehrenberg, 1829.
- Cantherines** Swainson, II, 327; haplotype *MONACANTHUS NASUTUS* Q. & G. Replaces *LIOMONACANTHUS* Blkr. (1866).
- Cirrhisomus** Swainson, II, 328; haplotype *TETRAODON SPENGLERI* Bloch. Same as *CHEILICHTHYS* Müller, a synonym of *SPHEROIDES* Dum.
- Leisomus** Swainson, II, 328; logotype *L. MARMORATUS* Sw. = *TETRAODON CUTCUTIA* Ham., as restricted by Bleeker, 1865. The genus is called *LEIODON* on page 194, without mention of type. *LEISOMUS* is preoccupied. *LEIODON* replaces *MONOTRETA* Bibron. Swain restricts *LEISOMUS* and therefore *LEIODON*, to the first species named, *L. LÆVISSIMUS* Sw., a species of *SPHEROIDES* (*TETRAODON SPENGLERI* Bloch).
- Lagocephalus** Swainson, II, 328; logotype *TETRAODON STELLATUS* Donovan. Replaces *GASTROPHYSUS* Müller.
- Trichoderma** Swainson, II, 328; logotype *BALISTES SCAPUS* Lac. A synonym of *AMANSES* Gray (1833).
- Psilonotus** Swainson, II, 328; logotype *TETRAODON ROSTRATUS* Bloch. Called *CANTHIGASTER* on page 194, and therefore a synonym of the latter.
- Molacanthus** Swainson, II, 329; logotype *MOLACANTHUS PALLASI* Sw. = *DIDON MOLA* Pallas. Young of *MOLA* Kölr. = *MOLA* Cuv.
- Astrocanthus** Swainson, II, 331; haplotype *LOPHIUS STELLATUS* Vahl. A synonym of *HALIEUTÆA* Cuv. & Val., 1837.
- Phyllopteryx** Swainson, II, 332; haplotype *SYNGNATHUS FOLIATUS* Shaw.
- Acus** (Willughby) Swainson, II, 333; logotype *SYNGNATHUS ÆQUOREUS* "Yarrell". A synonym of *NEROPHIS* Raf.
- Solegnathus** Swainson, II, 333; haplotype *SYNGNATHUS HARDWICKI* Gray. Spelled *SOLENOGNATHUS* by Günther.
- Ophisoma** Swainson, II, 334; logotype *O. ACUTA* Sw., as restricted by Bleeker (1864). Swain, in 1882, chose *O. OBTUSA* Sw. as type. The latter species is a CONGER, the former belongs to *CONGERMURÆNA* Kaup, as restricted. The name is preoccupied by *OPHISOMUS* Sw., page 277. It is called *ARIOSOMA* on page 194. *ARIOSOMA* thus replaces *CONGERMURÆNA* Kaup, and also *CONGREGELLUS* Ogilby, all based on the same type, earlier described as *MURÆNA BALEARICA* De la Roche.
- Pterurus** Swainson, II, 334, logotype *PTERURUS MACULATUS* Sw. = *MURÆNA RAITOBORUA* Ham. A synonym of *RAITABOURA* Gray (1831) or *MORINGUA* Gray (1831).
- Leptognathus** Swainson, I, 221, and II, 334; haplotype *LEPTOGNATHUS OXYRHYNCHUS* Sw. = *MURÆNA SERPENS* L. A synonym of *OPHISURUS* Lac., as restricted by Risso.
- Pachyurus** Swainson, II, 335; haplotype *MORINGUA LINEARIS* Gray; preoccupied by *PACHYUBUS* Ag. (1829). A synonym of *PSEUDOMORINGUA* Blkr. (1864).
- Ophichthys** Swainson, II, 336; haplotype *UNIBRANCHAPERTURA CUCHIA* Ham. Name preoccupied by *OPHICHTHUS* Ahl. (1789). A synonym of *AMPHIPNOUS* Müller (1839).

Rupisuga Swainson, II, 339; haplotype *R. NICENSIS* Sw. = *LEPODOGASTER BALBIS* Risso. A synonym of *GOUANIA* Nardo (1833).

1840

252. BENNETT (1840). *Narrative of a Whaling Voyage Around the Globe.*

F. D. BENNETT.

Elagatis F. D. Bennett, II, 283; orthotype *SERIOLA BIPINNULATA* Q. & G.

253. BONAPARTE (1840). *Iconografia della fauna italiana*. Fascicles 68 to 138, part 27. According to Troschel, fascicle 91 dates from 1837, 92 to 96 from 1838, 103 from 1839, and fascicle 138 dates from 1840.

CARLO LUCIANO BONAPARTE.

Stomocatus Bonaparte, 129*; logotype (not named) *CYPRINUS CATOSTOMUS* Forster.

A synonym of *CATOSTOMUS* Le Sueur; species with the dorsal fin short, "especie . . . che han breve la pinna dorsale".

Ichthyocoris Bonaparte, fasc. 134; orthotype *BLENNIUS VARUS* Risso. A synonym of *BLENNIUS* L.

Ichthyococcus Bonaparte, fasc. 138; orthotype *I. OVATUS* Bon. Name later altered by Günther to *COCCIA* on account of its crude form (1840).

Lampanyctus Bonaparte, fasc. 138; orthotype *L. BONAPARTEI* Bon.

Chlorophthalmus Bonaparte, fasc. 138; orthotype *C. AGASSIZI* Bon.

254. CUVIER & VALENCIENNES (1840) *Histoire naturelle des poissons*. XV.

ACHILLE VALENCIENNES.

Galeichthys Cuvier & Valenciennes, XV, 28; logotype *GALEICHTHYS FELICEPS* Cuv. & Val., as restricted by Bleeker.

Pangasius Cuvier & Valenciennes, XV, 45; tautotype *PIMELODUS PANGASIUS* Ham.

Silundia Cuvier & Valenciennes, XV, 49; tautotype *PIMELODUS SILONDIA* Ham. A synonym of *SILONIA* Sw.

Arius Cuvier & Valenciennes, XV, 53; tautotype *PIMELODUS ARIUS* Ham. As so understood, a synonym of *TACHYSURUS* Lac., if the latter is correctly identified. Bleeker takes the first species named, *ARIUS STRICTICASSIS* Cuv. & Val., as type, thus replacing *NOTARIUS* Gill.

Trachelyopterus Cuvier & Valenciennes, XV, 220; orthotype *T. CORIACEUS* Cuv. & Val.

Arges Cuvier & Valenciennes, XV, 333; logotype *ARGES SABALO* Cuv. & Val.

Brontes Cuvier & Valenciennes, XV, 341; haplotype *BRONTES PRENADILLA* Cuv. & Val. Name two or three times preoccupied; replaced by *STREPHON* Gistel (1848).

Saccobranchus Cuvier & Valenciennes, XV, 399 haplotype *SILURUS SINGIO* Ham. = *HETEROPNEUSTES* Müller, 1839.

Chaca Cuvier & Valenciennes, XV, 444; haplotype *PLATYSTACUS CHACA* Ham.

255. EICHWALD (1840). (*Fossil Fishes.*) Bull. Acad. Sci. St. Petersburg.

CARL EDUARD VON EICHWALD.

Astrolepis Eichwald, VIII, 79; orthotype *A. ORNATUS* Eichw. (fossil). Later spelled *ASTEROLEPIS* by Eichwald and by most writers.

Bothriolepis Eichwald, VII, 79; orthotype *B. PRISCA* Eichw. (fossil).

256. HECKEL (1840). *Johann Natterer's neue Flussfische Brasilien's nach den Beobachtungen und Mittheilungen des Entdeckers beschrieben*. Abth. 1, *Die Labroiden*. Ann. Wien. Mus., II.

JOHANN JAKOB HECKEL.

- Uaru** Heckel, II, 330; orthotype *U. AMPHACANTHOIDES* Heckel.
Symphysodon Heckel, II, 332; orthotype *S. DISCUS* Heckel.
Pterophyllum Heckel, II, 334; orthotype *PLATAX SCALARIS* Cuv. & Val.
Acara Heckel, II, 338; logotype *A. CRASSISPINIS* Heckel, as restricted by Gill (1858). A synonym of *ASTRONOTUS* Sw. (*HYGROGONUS* Gthr.).
Heros Heckel, II, 362; logotype *H. SEVERUS* Heckel, as restricted by J. & G., 1883. A synonym of *CICHLAURUS* or *CICHLASOMA* Sw.
Geophagus Heckel, II, 383; logotype *G. MEGASEMA* Heckel.
Chætobranchus Heckel, II, 401; logotype *C. FLAVESCENS* Heckel.
Crenicichla Heckel, II, 416; logotype *C. VITTATA* Heckel.
Batrachops Heckel, II, 432; logotype *B. RETICULATUS* Heckel.
Monocirrhus Heckel II, 439; orthotype *M. POLYACANTHUS* Heckel.

257. LOWE (1840). *Certain New Species of Madeiran Fishes*. Proc. Zool. Soc. London, 36-39.

RICHARD THOMAS LOWE.

- Cheilopogon** Lowe, VII, 38; orthotype *CYPSELURUS PULCHELLUS* Lowe. A manuscript name, withdrawn because of the earlier name *CYPSELURUS* Sw. Applied to young flying fish with barbels; equivalent also to *PTENICHTHYS* Müller.

258. MÜNSTER (1840). *Ueber einige Placoiden im Kupferschiefer zu Richselsdorf; Beiträge zur Petrefactenkunde*.

GEORG MÜNSTER.

- Dictea** Münster, III, 124; orthotype *D. STRIATA* Münster (fossil). A synonym of *JANASSA* Münster.

- 259-261. MÜNSTER (1840). (*Braun, Petrefakten von Bayreuth.*)

GEORG MÜNSTER.

- Saurorhynchus** (Münster) Braun, 73 (not defined); orthotype *SAURICHTHYS TENUIROSTRIS* (Münster) (fossil). Name apparently eligible, as being applied to a species already described.

262. NORDMANN (1840). *Observations sur la fauna pontique; im Demidoff, voyage dans la Russie meridionale et la Crimée*. III.

ALEXANDER VON NORDMANN.

- Percarina** Nordmann, 357; orthotype *P. DEMIDOFFI* Nordmann.

263. OWEN (1840). *Odontography; or a Treatise on the Comparative Anatomy of the Teeth*.

RICHARD OWEN.

- Petalodus** Owen, 61; orthotype *P. HASTINGSI* Owen (fossil).

- Rhizodus** Owen, 75; orthotype *MEGALICHTHYS HIBBERTI* Ag. (fossil). A synonym of *MEGALICHTHYS* Ag.

264. RANZANI (1840). *De novis speciebus piscium; dissertationes quatuor*. Novi Comment. Acad. Sci. Inst. Bonon., IV.

CAMILLO RANZANI.

- Syacium** Ranzani, 20; orthotype *S. MICRURUM* Ranzani. Replaces *HEMIRHOMBUS* Blkr. (1862).

Diapterus Ranzani, IV, 340; orthotype *D. auratus* Ranzani. Replaces *Gerres* J. & E.; not of Cuvier as properly restricted.

265. RICHARDSON (1840). *On Some New Species of Fishes from Australia*. Proc. Zool. Soc. London, VIII.

JOHN RICHARDSON.

Oplegnathus Richardson, 27; orthotype *O. conwayi* Rich. Name later corrected by Richardson to *Hoplegnathus conwayi*; altered by Günther to *Hoplognathus*, in which form it is preoccupied. If necessary, may be replaced by *Scarodon* T. & S.

266. THOMPSON (1840). *On a New Genus of Fishes from India (Bregmaceros maclellandi* Cantor, MS.). Ann. Mag. Nat. Hist., IV.

WILLIAM THOMPSON.

Bregmaceros (Cantor) Thompson, IV, 184; orthotype *B. maclellandi* (Cantor) Thompson.

1841

267. AGASSIZ (1841). *On the Fossil Fishes Found by Mr. Gardner in the Province of Ceará, in the North of Brazil*. Edinb. New Philos. Journ., XXX.

LOUIS AGASSIZ.

Cladocyclus Agassiz, XXX, 83; orthotype *C. gardneri* Ag. (fossil).

Rhacolepis Agassiz, XXX, 83; logotype *R. buccalis* Ag. (fossil). (Misprinted *Phacolepis*.)

Calamopleurus Agassiz, XXX, 84; orthotype *C. cylindricus* Ag. (fossil). This genus belongs to the *Elopidae*, near to *Elops*, *Rhacolepis* and *Notelops*. See Jordan & Branner, *Smithsonian Misc. Coll.*, 1793-1908 ("Cretaceous Fishes of Ceará, Brazil").

268. BONAPARTE (1841). *Iconografia della fauna italica*. 3d part (fascicles 156-160 dating probably 1841).

CARLO LUCIANO BONAPARTE.

Pristiurus Bonaparte (1841); orthotype *Galeus melastomus* Raf. (Written *PRISTIURUS* in *Saggio*, p. 121, 1831, and in *Fauna Italica*. Called *PRISTIDURUS* in *Mem Soc. Sci. Neufchâtel*, II, p. 11, 1839), *PRISTIURUS* is the form in general use, but *PRISTIDURUS* may have priority of definition.

Syrraxis (Jourdan) Bonaparte, fasc. 160; orthotype *Narcine (Syrraxis) indica* Henle. Manuscript name based on specimens in the Museum of Lyons "ben ordinato di celebri Prof. Jourdan," identified by Bonaparte as *NARCINE INDICA* Henle. A synonym of *NARCINE* Henle.

Agassiz quotes also a genus "*POWERIA* Bonaparte". This is certainly an error. Troschel writes, "*GON. POWERLE*" for *GONOSTOMA*. This was doubtless mistaken for "Gen."

269. EICHWALD (1841). *Fauna Caspio-Caucasica non nullis observationibus novis illustrata*. St. Petersburg.

CARL EDUARD VON EICHWALD.

Sypterus Eichwald; orthotype (*PERCA LOPHAR* Forskål). A synonym of *POMATOMUS* Lac. (not verified).

270. FLEMING (1841). *Description of a New Species of Skate (Hieroptera abredonensis) New to the British Fauna*. Edinb. New Phil. Journ., XXXI, 1841.

JOHN FLEMING (1785-1857).

Hieroptera Fleming, XXXI, 236; orthotype *H. ABREDONENSIS* Fleming (a monstrous form of *RAJA CLAVATA* *fide* Gill). A synonym of *RAJA* L.

271. HECKEL (1841). *Ueber eine neue Gattung (Aulopyge hugeli) von Süßwasserfische in Europa; aus einen Schreiben an den Akademiker Dr. Brandt.* Bull. Sci. Acad. St. Petersburg, VIII.

JOHANN JAKOB HECKEL.

Aulopyge (Brandt) Heckel, I, 1021; orthotype *A. HUGELI* Heckel (also in *Russeger's Reisen*, p. 1021).

272. HOGG (1841). (*Protomelus and Amphibichthys.*) Am. Mag. Nat. Hist., VII.
JOHN HOGG.

Protomelus Hogg, VII, 359; orthotype *LEPIDOSIREN ANNECTENS* Owen. A synonym of *PROTOPTERUS* Owen.

Amphibichthys Hogg, 362; orthotype *LEPIDOSIREN PARADOXA* Fitzinger. A synonym of *LEPIDOSIREN* Fitzinger.

273. LOWE (1841). *Synopsis of the Fishes of Madeira, etc.* Trans. Zool. Soc. London, II.

RICHARD THOMAS LOWE.

Aplurus Lowe, II, 180; orthotype *A. SIMPLEX* Lowe. A synonym of *RUVELTUS Cocco*.

Prometheus Lowe, II, 181; orthotype *GEMPYLUS PROMETHEUS* Cuv. & Val. Name preoccupied; replaced by *PROMETHICHTHYS* Gill (1893).

274. MILLER (1841). *The Old Red Sandstone; or New Walks in an Old Field.* Edinburgh.

HUGH MILLER (1802-1856).

Pterichthys (Agassiz) Miller, XXII; orthotype *P. MILLERI* Ag. (fossil). Name preoccupied—Swainson (1839); replaced by *PTERICHTHYODES* Blkr. (1839 and by *MILLERICHTHYS* S. A. Miller, 1892.

275. MÜNSTER (1841). (*Asterodon.*) Beiträge zur Petrefaktenkunde, IV.
GEORG MÜNSTER.

Asterodon Münster, IV, 140; orthotype *A. BRONNI* Münster (fossil). Probably identical with *COLOBODUS* Ag. and of earlier date.

276. NARDO (1841). *Proposizione per la formazioni di un nuovo generi di pesci, intitolato Brachyochirus.* Ann. Sci. Reale Lombardo-Veneto, Padova.

GIOVANNI DOMENICO NARDO.

Brachyochirus Nardo I; orthotype *GوبيUS APHYA* Risso = *GوبيUS MINUTUS* L. A section of *GوبيUS*; same as *POMATOSCHISTUS* Gill (1862). Perhaps to be regarded as preoccupied by *BRACHYRUS* and *BRACHIRUS* of Swainson (1839) of similar etymology.

- 277 OWEN (1841). *On the Structure of Fossil Teeth from the Central of Cornstone Division of the Old Red Sandstone, Indicative of a New Genus of Fishes, or Fish-like Batrachia, etc.* Micr. Journ., I.

RICHARD OWEN.

Dendrodus Owen, I, 4; logotype *D. BIPORCATUS* Owen (fossil).

Sphyrænodus (Agassiz) Owen, 129; orthotype *S. PRISCUS* Ag. (fossil). Names only; validated by Agassiz in 1844.

278. SYKES (1840). *The Fishes of Dukhun*. Ann. Mag. Nat. Hist., IV.
WILLIAM HENRY SYKES.

Rohtee Sykes, II, 364; orthotype R. VIGORSI Sykes. Replaces OSTEOBAMA Heckel.

1842

279. AGASSIZ (1842). (*Diplacanthus*.) In Duff's *Geology of Moray*.

LOUIS AGASSIZ.

Diplacanthus (Agassiz) Duff, 71; orthotype D. CRASSISSIMUS Duff = D. STRIATUS. Ag. (fossil); more fully defined in *Poissons fossiles Vieux Grès Rouge*. Name misspelled DIPLOCANTHUS by Duff.

280. CUVIER & VALENCIENNES (1842). *Histoire naturelle des poissons*. XVI.

ACHILLE VALENCIENNES.

Dangila Cuvier & Valenciennes, XVI, 229; logotype DANGILA CUVIERI Val.

Nuria Cuvier & Valenciennes, XVI, 238; logotype NURIA THERMOICOS Cuv. & Val.
A synonym of ESOMUS Sw.

Rohita Cuvier & Valenciennes, XVI, 242; tautotype CYPRINUS ROHITA Ham., ROHITA RUCHANANI Val. Apparently identical with LABEO Cuv.

Capoëta Cuvier & Valenciennes, XVI, 278; tautotype CAPOËTA FUNDULUS Val. = CYPRINUS CAPOËTA GÜLDENSTADT (logotype C. AMPHIBIA Cuv. & Val.) as restricted by Bleeker.

281. DEKAY (1842). *Zoology of New York; or, The New York Fauna. Comprising Detailed Descriptions of All the Animals Hitherto Observed Within the State Borders*, etc. Natural History of New York State Geological Survey, Albany.

JAMES ELLSWORTH DEKAY (1792-1851).

Lepisoma Dekay, 11; orthotype L. CIRRHOSUM Dekay = CLINUS PECTINIFER Cuv. & Val. Regarded as preoccupied in beetles by LEPISOMUS Kirby. A synonym of LABROSOMUS Sw.

Pileoma Dekay, 16; haplotype PILEOMA SEMIFASCIATA Dekay = ETHEOSTOMA CAPRODES Raf. A synonym of PERCINA Haldeman, of earlier date in the same year.

Boleosoma Dekay, 20; haplotype B. TESSELLATUM Dekay = ETHEOSTOMA OLMSTEDI Storer.

Uranidea Dekay, 61; haplotype URANIDEA QUIESCENS Dekay.

Apeltes Dekay, 68; orthotype GASTEROSTEUS QUADRACUS Mitchill.

Argyrea Dekay, 141; haplotype ATHERINA NOTATA Mitchill. Name preoccupied; a synonym of MENIDIA Bon.

Amblyopsis Dekay, 187; haplotype AMBLYOPSIS SPELÆUS Dekay.

Stilbe Dekay, 204; haplotype CYPRINUS CRYSOLEUCAS Mitchill. A synonym of NOTEMIGONUS Raf.

Baione Dekay, 244; haplotype B. FONTINALIS Dekay (the young of SALMO FONTINALIS Mitchill). A synonym of SALVELINUS Rich., 1836.

Acanthosoma Dekay, 350; orthotype A. CARINATUM Dekay. Same as MOLACANTHUS Sw., a larval form of MOLA Cuv.

Pastinaca (Belon) Dekay, 373; orthotype RAJA PASTINACA L. Name used for the same genus by several authors. A synonym of DASYATIS Raf.

282. GRAY (1842). *Description of Two Fresh-water Fish from New Zealand*.
(In Dieffenbach, Ernst: *Travels in New Zealand*. II.)

JOHN EDWARD GRAY.

Ptycholepis Gray, II, 218; orthotype *MUGIL SALMONEUS* Forster. A synonym of *CHANOS* Lac.

283. HALDEMAN (1842). *Description of Two New Species of the Genus Perca, from the Susquehannah River*. Journ. Acad. Nat. Hist.

SAMUEL STEHMAN HALDEMAN (1712-1890).

Percina Haldeman, VIII, 330; logotype *PERCA NEBULOSA* Haldeman = *ETHEOSTOMA CAPRODES* Raf. Same as *PILEOMA* Dekay and a little earlier in date.

284. HECKEL (1842). *Ichthyologie (von Syrien)*. In Russegger (Joseph von): *Reisen in Europa, Asien und Africa*, etc. Part I.

JOHANN JAKOB HECKEL.

Gibelion Heckel, I, 1014; orthotype *CYPRINUS CATLA* Ham. Replaces *CATLA* Cuv. & Val.

Cyprinion Heckel, I, 1015; logotype *C. MACROSTOMUS* Heckel.

Dillonia Heckel, I, 1020; orthotype *CHONDROSTOMA DILLONI* Cuv. & Val.

Scaphiodon Heckel, I, 1020; logotype *S. TINCA* Heckel.

Gymnostomus Heckel, I, 1030; logotype *G. ARIZA* Heckel, as restricted by Bleeker (1860); logotype *CAPOËTA SYRIACA* Cuv. & Val., as limited by Günther (1868). Apparently replaces *TYLOGNATHUS* Gthr., but not of Heckel.

Chondrochilus Heckel, I, 1031; orthotype *C. NASICUS*. A synonym of *CHONDROSTOMA* Ag.

Chondrorhynchus Heckel, I, 1031; logotype *CH. SOETTA* Heckel. A synonym of *CHONDROSTOMA* Ag.

Ballerus Heckel, I, 1032; tautotype *CYPRINUS BALLERUS* L.

Acanthobrama Heckel, I, 1033; logotype *A. MARMID* Heckel, as restricted by Bleeker.

Osteobrama Heckel, I, 1033; logotype *CYPRINUS COTIO* Ham. A synonym of *ROHTEE* Sykes (1841).

Pachystomus Heckel, I, 1038; orthotype *P. SCHACRA* Heckel. Name preoccupied. Same as *SHACRA* Blkr.

Argyreus Heckel, I, 1040; haplotype *CYPRINUS ATRONASUS* Mitchill. Name preoccupied. Equivalent to *RHINICHTHYS* Ag., 1850.

Leucosomus Heckel, I, 1042; haplotype *L. CHRYSOLEUCUS* Heckel, not of Mitchill = *CYPRINUS CORPORALIS* Mitchill. Considered as preoccupied by *LEUCOSOMA* Gray; replaced by *CHEILONEMUS* Baird (1855).

Glossodon Heckel, I, 1003; haplotype *CYPRINUS SMITHI* Rich.; identical with the type of *GLOSSODON* Raf. (1818). A synonym of *HIODON* Le Sueur (1818).

Luciobarbus Heckel, I, 1054; orthotype *L. ESOCINUS* Heckel.

Pseudophoxinus Heckel, I, 1063; orthotype *PHOXINELLUS ZEREGI* Heckel.

Discognathus Heckel, I, 1071; logotype *D. VARIABILIS* Heckel, as restricted by Bleeker, 1863. A synonym of *GARRA* Ham., as restricted by Bleeker.

Tylognathus Heckel, I, 1073; logotype *T. DIPLOSTOMUS* Heckel, as restricted by Bleeker, 1863, not *TYLOGNATHUS*, as restricted by Günther, 1868.

285. JENYNS (1842). *The Zoology of the Voyage of H.M.S. "Beagle", During the Years 1832-1836; edited by Charles Darwin: Fishes*. London.

LEONARD JENYNS (1800-1893) (afterwards LEONARD JENYNS BLOMEFIELD).

Arripis Jenyns, 14; orthotype *CENTROPRISTES GEORGIANUS* Cuv. & Val.

Prionodes Jenyns, 46; orthotype *P. FASCIATUS* Jenyns.

Stegastes Jenyns, 63; orthotype *S. IMBRICATUS* Jenyns = *CHÆTODON LURIDUS* Broussonet. This is probably identical with *MICROSPATHODON* Gthr., 1862, and of earlier date.

Acanthoclinus Jenyns, 92; orthotype *A. FUSCUS* Jenyns.

Mesites Jenyns, 118; orthotype *M. ATTENUATUS* Jenyns. A synonym of *GALAXIAS* Cuv.

Aplochiton Jenyns, 130; orthotype *A. ZEBRA* Jenyns. Spelled *HAPLOCHITON* by Günther.

Iluocœtes Jenyns, 166; orthotype *I. FIMBRIATUS* Jenyns.

Phucocœtes Jenyns, 168; orthotype *P. LATITANS* Jenyns.

286. McCLELLAND (1842). *Remarks on a New Genus of Thoracic Percoid Fishes, Cestreus*. Journ. Nat. Hist. Calcutta, IV.

JOHN McCLELLAND.

Cestreus McClelland, II, 150, 151; orthotype *C. MINIMUS* McCl. = *ATHERINA DANIVS* Ham. An ally of *ELEOTRIS*, near *HYPSELEOTRIS*, *CARASSOPS*, etc., small species with the habit of *GAMBUSIA*. D. V-9:A. 12. vertebræ 26, outer teeth minute, hooked (not "forked," as stated by Day).

287. McCLELLAND (1842). *On the Fresh-water Fishes Collected by William Griffin in His Travels, from 1835 to 1842*. Journ. Nat. Hist. Calcutta, II, 560-589.

JOHN McCLELLAND.

Racoma McClelland, II, 576; logotype *R. LABIATA* McCl., according to Bleeker.

Glyptosternon McClelland, II, 584; logotype *G. RETICULATUS* McCl. Spelled *GLYP-TOSTERNUM* by Günther.

Olyra McClelland, II, 588; logotype *O. LONGICAUDATA* McCl.

288. MÜNSTER (1842). *Beschreibungen einiger neuer Fische aus den lithographischen Schiefer von Bayern*. Beiträge zur Petrefaktenkunde.

GEORG MÜNSTER.

Dorypterus (Germar) Münster, V. 35; orthotype *D. HOFFMANNI* Germar (fossil).

Globulodus Münster, V, 47; orthotype *T. ELEGANS* Münster (fossil).

Thaumas Münster, V. 62; orthotype *T. ALIFER* Münster (fossil). A fossil homologue of *SQUATINA* Dum.

Capitodus Münster, V, 68; orthotype *C. SUBTRUNCATUS* Münster (fossil).

Soricidens Münster, V. 68; orthotype *S. HAUERI* Münster (fossil).

289. MÜNSTER (1842) *Neues Jahrb. für Mineralogie*, etc.

GEORG MÜNSTER.

Æthalion Münster, 41; logotype *A. INFLATUS* Münster (fossil).

Libys Münster, 45; orthotype *L. POLYPTERUS* Münster (fossil).

290. OWEN (1842). (*Raphiosaurus*.) Trans. Geol. Soc., London.

RICHARD OWEN.

Raphiosaurus Owen, VI, 413; orthotype *R. SUBULIDENS* Owen (fossil).

291. RICHARDSON (1842). *Catalogue of Fish Found at King George's Sound*. (In Eyre, E. J.: *Journals of Expeditions of Discovery into Central Australia*. I.)

JOHN RICHARDSON.

Centrogenys Richardson, IX, 120; orthotype *SCORPÆNA VAIGIENSIS* Blkr.

292. SCHOMBURGK (1842). *The Natural History of the Fishes of (British) Guiana*. Edinburgh.

ROBERT HERMANN SCHOMBURGK.

Ellipesurus Schomburgk, II, 184; orthotype *E. SPINICAUDA* Schomburgk (misprinted *ELIPESURUS*).

293. TEMMINCK & SCHLEGEL (1842). *Fauna Japonica, sive descriptio animalium quæ in itinere per Japoniam suscepto annis 1823-30 collegit, notis, observationibus et adumbrationibus illustravit P. F. de Siebold. Coniunctis studiis C. J. Temminck et H. Schlegel pro vertebratis, atque W. de Haan pro invertebratis elaborata.* (Part 1R, Pisces.) Edited by Carl Theodor Ernst von Siebold, the text of fishes mostly by Hermann Schlegel.

CÆNRAAD JACOB TEMMINCK (1770-1858); HERMANN SCHLEGEL (1804-1884).

Temminck and Schlegel gave no specific names when but one species occurred in the genus. The names of type species have been given by subsequent writers.

Perca-Labrax Temminck & Schlegel, 2; orthotype LABRAX JAPONICUS Cuv. & Val.

Name rejected by Bleeker and by Boulenger because no new genus was intended, LABRAX being merely entered as a subgenus of PERCA. Replaced by LATEOLABRAX Blkr. But an argument can be made for the retention of PERCALABRAX.

Aulacocephalus Temminck & Schlegel, 15; orthotype A. TEMMINCKI Blkr.

Anoplus Temminck & Schlegel, 17; orthotype ANOPOLUS BANJOS Rich. Name preoccupied; replaced by BANJOS Blkr. (1879).

294. VALENCIENNES (1842). *Determination des poissons: Voyage autour du monde . . . sur . . . la "Bonite,"* etc. Zoologie, I, Paris.

ACHILLE VALENCIENNES.

Oxuderces Valenciennes, 181; orthotype O. DENTATUS Val.

1843.

295. AGASSIZ (1843). *Recherches sur les poissons fossiles.* III, in part.

LOUIS AGASSIZ.

Orthacanthus Agassiz, III, pl. 45; orthotype O. CYLINDRICUS Ag. (fossil). Regarded by Woodward as a synonym of PLEURACANTHUS Ag., which preoccupied name it may replace.

Pleurodus Agassiz, III, 174; orthotype P. RANKINEI Ag. (fossil). No definition until accepted by Hancock and Althey, 1872. Regarded as preoccupied by PLEURODON (1840), replaced by PLEUROPLAX Woodw., 1889.

Cladacanthus Agassiz, III, 176; orthotype C. PARADOXUS Ag. (fossil); name only, defined first by Davis. *Trans. Roy. Dublin Soc.*, I, 1883, 365. A synonym of ERISMACANTHUS.

Cricacanthus Agassiz, III, 176; orthotype C. JONISI Ag. Name only, hence having no place in the system.

Gyropristis Agassiz, III, 177; orthotype G. OBLIQUUS Ag. Name only, hence without place in the system.

Cladodus Agassiz, III, 196; logotype C. MIRABILIS Ag. (fossil).

Sphenonchus Agassiz, III, 201; logotype S. ELONGATUS Ag. (fossil). A synonym, as restricted, of ACRODUS Ag.

Diplodus Agassiz, III, 204; logotype D. GIBBOSUS Ag. (fossil). Regarded by Woodward as a synonym of PLEURACANTHUS Ag. Both names are preoccupied. DIPLODUS has been replaced by DIDYMODUS Cope (1883), which is also preoccupied (as DIDYMODON Blake, 1863, a mammal) and again replaced by DICRANODUS Garman (1885). ORTHACANTHUS Ag. may replace PLEURACANTHUS, and some of the names given by Owen, as DITTODUS, have priority over DICRANODUS. It is not yet certain that the teeth called DIPLODUS and the spines called ORTHACANTHUS belong to the same fish.

- Otodus** Agassiz, III, 206; logotype *O. obliquus* Ag., not *O. appendiculatus* Ag. (fossil). Apparently not separable from the living genus, *Lamna* Cuv. (1817).
- Corax** Agassiz, III, 244; logotype *Galeus pristodontus* Morton (fossil).
- Hemipristis** Agassiz, III, 237; orthotype *H. serra* Ag. (fossil). A genus represented by a living homologue, *Dirrhizodon elongatus* Klunzinger in the Red Sea.
- Meristodon** Agassiz, III, 286; orthotype *Oxyrhina paradoxa* Ag. (fossil). Probably a synonym of *Hybodus*.
- Sphenodus** Agassiz, III, 298; orthotype *Lamna longidens* Ag. (fossil). Name regarded as preoccupied as *Sphenodon* Gray (1831); replaced by *Orthacodus* Woodw. (1889).
- Carcharopsis** Agassiz, III, 313; orthotype *C. prototypus* Ag. (fossil). Name only; same as *Pristicladodus dentatus* McCoy. A synonym of *Dicrenodus* Romanowsky (1853), which name Woodward adopts, as being first defined and with a described type.
- Zygobatis** Agassiz, III, 328; logotype *Rhinoptera studeri* Ag. (fossil). Apparently a synonym of *Rhinoptera* Kuhl.
- Ganodus** Agassiz, III, 339; orthotype *Chimæra oweni* Ag. (fossil).
- Psittacodon** Agassiz, III, 340; logotype *Ischyodus psittacinus* Egert. (fossil). A synonym of *Ganodus*.
- Actinobatis** Agassiz, III, 372; orthotype *Raja ornata* Ag. (fossil). Regarded as a synonym of *Raja* L. If so, the living species, *Raja ornata* Garman, must receive a new name.
- Scylliodus** Agassiz, III, 377; orthotype *S. antiquus* Ag. (fossil). An ally of *Thyellina* and *Scylliorhinus*.
- Arthropterus** Agassiz, III, 379; orthotype *A. rileyi* Ag. (fossil). A bit of some unrecognized ray.
- Asterodermus** Agassiz, III, 381; orthotype *A. platypterus* (fossil). Name preoccupied by *Asterodermus* Bonelli, 1829.
- Thyellina** Agassiz, III, 378; orthotype *T. angusta* Ag. (fossil). A fossil ally of *Scylliorhinus* Blainv.
- Narcopterus** Agassiz, III, 382; orthotype *N. bolcanus* Ag. (fossil). Name only, hence not part of the system. An ally of *Torpedo* Dum.
- Cyclarthrus** Agassiz, III, 382; orthotype *C. macroptenes* Ag. (fossil). A fin of some ray, imperfectly known.
- Euryarthra** Agassiz, III, 382; orthotype *E. munsteri* Ag. (fossil). An ally of *Rhinobatus* Linck and a synonym of *Ællopos* Münster.
296. EGERTON (1843). *On Some New Species of Fossil Chimæroid Fishes, with Remarks on Their Affinities* Proc. Geol. Soc., IV.
 PHILIP DE MALPAS GREY EGERTON.
- Ischyodus** Egerton, IV, 155; orthotype *Chimæra colei* (Buckland) Ag. (fossil).
- Elasmodus** Egerton, IV, 156; orthotype *E. hunteri* Egert. (fossil).
297. HALL (1843). *Natural History of New York.* (Palæontology.)
 JAMES HALL.
- Sauripteris** Hall, IV, 282; orthotype *S. taylori* Hall (fossil). Usually written *Sauripterus*.
298. HECKEL (1843). *Abbildungen und Beschreibungen der Fische Syriens, nebst einer neuen Classification und Charakteristik sämmtlicher Gattungen der Cyprinen.* Stuttgart.
 JOHANN JAKOB HECKEL.

Leucos (Bonaparte) Heckel, 48; logotype *L. RUBELLUS* Bon. Name regarded as preoccupied as *LEUCUS* Kaup, a genus of birds; replaced by *CENISOPHIUS* Bon.
Phoxinellus Heckel, 50; orthotype *P. ALEPIDOTUS* Heckel, as restricted by Bleeker, who later separated *P. ZEREGI* as *PSEUDOPHOXINUS*, 1859. Same as *PARAPHOXINUS* Blkr., 1863.

Mola Heckel, appendix, 257; orthotype *CYPRINUS MOLA* Ham. Preoccupied in fishes; replaced by *AMBLYPHARYNGODON* Blkr.

299. HECKEL (1843). *Ichthyologie (von Syrien)*. In Russegger (Joseph von): *Reisen in Europa, Asien und Africa, mit besonderer Rücksicht auf naturwissenschaftlichen Verhältnisse der betreffenden Länder, unternommen in den Jahren 1835 bis 1841*. Part 2, 1843.

JOHANN JAKOB HECKEL.

Cyrene Heckel, II, 284; logotype *C. OCELLATA* Heckel. A synonym of *DANGILIA* Cuv. & Val. (1842).

Schizopyge Heckel, II, 285; logotype *SCHIZOTHORAX CURVIFRONS* Heckel, as restricted by Bleeker, 1863.

Aspidoparia Heckel, II, 288; orthotype *A. SARDINA* Heckel.

300. LOWE (1843). *Notice of Fishes Newly Observed or Discovered in Madeira During the Years 1840, 1841 and 1842*. Proc. Zool. Soc. London.

RICHARD THOMAS LOWE.

Taractes Lowe, 82; orthotype *T. ASPER* Lowe.

Antigonia Lowe, 85; orthotype *A. CAPROS* Lowe.

Hesperanthias Lowe, 14; orthotype *SERRANYS OCULATUS* Cuv. & Val. A synonym of *ETELIS* Cuv. & Val.

Cubiceps Lowe, 82; orthotype *PSENESES GRACILIS* Lowe. A synonym of *PSENESES* Cuv. & Val.

Echiostoma Lowe, 87; orthotype *E. BARBATUM* Lowe.

Metopias Lowe, 90; orthotype *M. TYPHLOPS* Lowe. Preoccupied; replaced by *MELAMPHAËS* Gthr., 1864.

Gadella Lowe, 91; orthotype *G. GRACILIS* Lowe = *GADUS MARALDI* Risso. Replaces *URALEPTUS* Costa (1858).

Diaphasia Lowe, 92; orthotype *GYMNOTUS ACUS* Brünnich. A synonym of *CARAPUS* Raf.; a substitute for the "barbarous" name, *FIERASFER*.

301. LOWE (1843). *A History of the Fishes of Madeira, etc.*

RICHARD THOMAS LOWE.

Pleurothyris Lowe, 64; orthotype *STERNOPTYX OLFERSI* Cuv. Misprinted *PLEUROTHYSIS* by Günther. A synonym of *ARGYROPELECUS* Cocco.

302. MÜLLER (1843). *Beiträge zur Kenntniss der natürlichen Familien der Knochenfische*. Sitzb. Akad. Wiss. Berlin.

JOHANNES MÜLLER.

Encheliophis Müller, 153; orthotype *E. VERMICULARIS* Müller.

303. MÜLLER (1843). *Beiträge zur Kenntniss der natürlichen Familien der Fische*. Wiegmann's Arch. Naturgesch.

JOHANNES MÜLLER.

Cotylis Müller & Troschel, 297. haplotype *LEPADOGASTER NUDUS* Bl. & Schn. = *GOBIESOX GYRINUS* J. & E., not *CYCLOPTERUS NUDUS* L., which is not identified. Later restricted by Günther, 1861, *COTYLIS FIMBRATA* M. & T., a species

described later and not at first included by Müller. (*Horæ Ichthyologiæ*, III, 297. For COTYLIS Günther, not Müller, the name COTYLICHTHYS Jordan, 1919, has been substituted. A synonym of GOBIESOX Lac.

Sicyases Müller & Troschel, 298; orthotype *S. SANGUINEUS* M. & T.

Synancidium Müller, 302; orthotype *SCORPÆNA HORRIDA* L., "SYNANCEIA mit Vomerzähnen". A synonym of SYNANCEJA Bl. & Schn., as restricted.

Ptenichthys Müller, 312; logotype (*EXOCÆTUS FURCATUS* Mitchell; "EXOCÆTUS mit Barbfaden"). A synonym of CYPSELURUS Sw., 1839.

Hemiodus Müller, 316; orthotype *H. CRENIDENS* Müller.

Macrodon Müller, 163; orthotype *M. TRAHIRA* Müller = *SYNODUS MALABARICUS* Bl. & Schn. Name preoccupied by MACRODON Schinz, 1822; replaced by HOPLIAS Gill.

Euanemus Müller, 318; orthotype *E. COLUMBETES* Müller = *HYPOPTHALMUS NUCHALIS* Spix. A synonym of AUCHENIPTERUS Cuv. & Val., as restricted by Bleeker and by Eigenmann.

Calophysus Müller, 318; orthotype *PIMELODUS MACROPTERUS* Lichtenstein.

Mormyrops Müller, 324; logotype *MORMYRUS ANGUILLOIDES* Geoffroy St. Hiraire.

Gastrophysus Müller, 330; orthotype *TETRAODON LUNARIS* L. Substitute for PHY-SOGASTER Müller, preoccupied. A synonym of LAGOCEPHALUS Sw.

Arapaima Müller, 326; orthotype *SUDIS GIGAS* Cuv. A substitute for *SUDIS* Cuv., preoccupied by *SUDIS* Raf. (1810).

Heterotis (Ehrenberg) Müller, 326; orthotype *SUDIS NILOTICUS* Cuv. A synonym of CLUPISUDIS Sw.

304. MÜNSTER (1843). *Beiträge zur Petrefaktenkunde*. VI.

GEORG MÜNSTER.

Wodnika Münster, VI, 48; orthotype *ACRODUS ALTHAUSI* Münster (fossil).

Byzenos Münster, VI, 50; orthotype *B. LATIPINNATUS* Münster (fossil). A synonym of JANASSA.

305. PORTLOCK (1843). (*Geological Survey of Londonderry*.)

JOSEPH ELLISON PORTLOCK.

Tristychius Portlock, 464; orthotype *T. MINOR* Portlock (fossil).

306. RICHARDSON (1843). *Description of the Lurking Macherie (Machærium subducens) from the Northern Coast of New Holland*. Ann. Mag. Nat. Hist. VII.

JOHN RICHARDSON.

Machærium Richardson, XII, 175; orthotype *M. SUBDUCENS* Rich. Name preoccupied; replaced by CONGROGADUS Gthr., 1862.

307, 308. TEMMINCK & SCHLEGEL (1843). *Fauna Japonica* (part).

COENRAAD JACOB TEMMINCK; HERMANN SCHLEGEL.

Acropoma Temminck & Schlegel, 41; orthotype *ACROPOMA* (JAPONICUM Gthr.).

Aploactis Temminck & Schlegel, 51; orthotype *A. ASPERA* Rich.

Glaucosoma Temminck & Schlegel, 1843, 62; orthotype *G. BURGERI* Rich.

Caprodon Temminck & Schlegel, 64; orthotype *CAPRODON* = *ANTHIAS SCHLEGELI* Gthr.

1844

309. AGASSIZ (1844). *Recherches sur les poissons fossiles*. I, II, III, IV, V (parts completed).

LOUIS AGASSIZ.

- Placosteus** Agassiz, I, XXIII; orthotype *P. MÆANDRINUS* Ag. (fossil); name only, replaced in 1845 by *PSAMMOSTEUS* Ag.
- Chelonichthys** Agassiz, I, XXXIII; logotype *C. ASMUSI* Ag. (fossil); name only. A synonym of *ICHTHYOSAUROIDES* Kutorga.
- Glyptosteus** Agassiz, I, XXXIV; orthotype *G. RETICULATUS* Ag. (fossil); name only. A synonym of *BOTHRIOLEPIS*.
- Psammolepis** Agassiz, I, XXXIV; orthotype *P. PARADOXUS* Ag. (fossil); name only, replaced in 1845 by *PSAMMOSTEUS* Ag.
- Scaphodus** Agassiz, I, XLIII; orthotype *GYRONCHUS OBLONGUS* Ag. (fossil). A synonym of *GYRONCHUS*.
- Pododus** Agassiz, II, 83; orthotype *P. CAPILLATUS* Ag. (fossil); name only. Identified by Woodward, 1901, as a synonym of *MESOLEPIS* Young.
- Megalichthys** Agassiz, II, 89, 154; orthotype *M. HIBBERTI* Ag. (fossil). Not *MEGALICHTHYS* Ag. 1836. Should apparently stand as *CENTRODUS* McCoy.
- Conodus** Agassiz, II, 105; orthotype *C. FEROX* Ag. (fossil); name only; preoccupied as *CONODON* Cuv. & Val., 1830. A synonym of *CATURUS* Ag.
- Thrissonotus** Agassiz, II, 128; orthotype *T. COLEI* Ag. (fossil); name only. Same as *OXYGNATHUS* Egert.; defined by Egerton, 1858.
- Microspondylos** Agassiz, II, 139; orthotype *M. ESCHERI* Ag. (no definition: shales of Glarus).
- Cricodus** Agassiz, II, 156; orthotype *DENDRODUS INCURVUS* Duff. (fossil).
- Amblysemus** Agassiz, II, 165; orthotype *A. GRACILIS* Ag. (fossil).
- Macropoma** Agassiz, II, 174; orthotype *M. EGERTONI* Ag. (fossil); name only. Defined by Egerton, *Mem. Geol. Surv.*, IX, No. 10, 1858, from which the name should date. A synonym of *EURYCORMUS* Wagner, 1863, and of earlier date.
- Uronemus** Agassiz, II, 178; orthotype *U. LOBATUS* Ag. (fossil).
- Hoplopygus** Agassiz, II, 178; orthotype *H. BINNEYI* Ag. (fossil). A synonym of *CÆLACANTHUS*.
- Gyrosteus** Agassiz, II, 179; orthotype *G. MIRABILIS* Ag. (fossil); name only; validated by Egerton, *Phil. Trans.*, 1858, 883.
- Ctenolepis** Agassiz, II, 180; orthotype *C. CYCLUS* Ag. (fossil). Undetermined scales; defined by Woodward, 1895.
- Periodus** Agassiz, II, 201; orthotype *P. KOENIGI* Ag. A synonym of *PYCNODUS* Ag.
- Gyronchus** Agassiz, II, 202; orthotype *G. OBLONGUS* Ag. (fossil).
- Acrotemnus** Agassiz, II, 203; orthotype *A. FABIA* Ag. (fossil).
- Colobodus** Agassiz, II, 237; orthotype *C. HOGARDI* Ag. (fossil). Apparently a synonym of *ASTERODON* Münster.
- Phyllodus** Agassiz, II, 238; orthotype *P. TOLIAPICUS* Ag. (fossil).
- Acanthoderma** Agassiz, II, 251; logotype *A. SPINOSUM* Ag. (fossil). Name preoccupied. See *AGOREION* Gistel, 1847.
- Acanthopleurus** Agassiz, II, 253; orthotype *PLEURACANTHUS SERRATUS* Ag. (fossil). This name may be regarded as preoccupied by *ACANTHOPLEURA*, 1829.
- Rhinellus** Agassiz, II, 260; orthotype *R. FURCATUS* Ag. (fossil), regarded as preoccupied by *RHINELLA* Fitzinger, 1826; replaced by *ICHTHYOTRINGA* Cope, 1878.
- Glyptocephalus** Agassiz, II, 264; orthotype *G. RADIATUS* Ag. (fossil). Name preoccupied, Gottsche, 1835. A synonym of *BUCKLANDIUM* König.
- Chondrosteus** Agassiz, II, 280; orthotype *C. ACIPENSEROIDES* Ag. (fossil); name only; validated by Egerton, *Phil. Trans.*, 1858, 871.
- Nothosomus** Agassiz, II, 292; orthotype *N. OCTOSTYCHIUS* Ag. (fossil); name only; described by Egerton, *Mem. Geol. Surv.*, 1858, Dec. IX, No. 6. An ally of *PHOLIDOPHORUS*.

- Coccolepis** Agassiz, II, 300; orthotype *C. BUCKLANDI* Ag. (fossil).
- Plectrolepis** Agassiz, II, 306; orthotype *P. RUGOSUS* Ag. (fossil); name only; defined by Egerton, 1850. A synonym of *NOTACMON* Gistel, which replaces *EURYNOTUS* Ag.
- Oxyrhina** Agassiz, III, 276; orthotype *ISURUS SPALLANZANI* Raf. Preoccupied; replaced by *PLECTROSTOMA* Gistel (1848). A synonym of *ISURUS* Raf., 1810.
- Coelacanthus** Agassiz, IV, 83; orthotype *C. GRANULATUS* Ag. (fossil).
- Rhamphosus** Agassiz, IV, 270; orthotype *CENTRISCUS ACULEATUS* Blainv. (fossil).
- Urosphen** Agassiz, IV, 284; orthotype *U. FISTULARIS* Ag. (fossil). (Printed as name only in *Neues Jahrb.*, 1835, 293.)
- Notæus** Agassiz, V, 12; orthotype *N. LONGICAUDUS* Ag. (fossil). Name regarded as preoccupied, as *NOTEUS* Ehrenb., 1830; replaced by *AMIOPSIS* Kner. A synonym of *CYCLURUS* Ag.
- Cyclurus** Agassiz, V, 12; orthotype *V. VALENCIENNESI* Ag. (fossil). Regarded as preoccupied by *CYCLURA* Harlan, 1825, a reptile, replaceable by *AMIOPSIS* Kner. A fossil homologue of *AMIA* L. (*AMIATUS* Raf.).
- Sphenolepis** Agassiz, V, 13; orthotype *CYPRINUS SQUAMOSSEUS* Blainv. (fossil). Name preoccupied, same as *NOTOGONEUS* Cope, 1885; perhaps a synonym of *ANORMURUS* Blainv., 1818.
- Autolepis** Agassiz, V, 14; orthotype *A. TYPUS* Ag.
- Enchelyopus** Agassiz, V, 16; orthotype *E. TIGRINUS* Ag. (fossil). (As name only in *Neues Jahrb.*, 1835, 307.) Name preoccupied; replaced by *PARANGUILLA* Blkr., 1864.
- Pamphractus** Agassiz, V, 20; orthotype *P. HYDROPHILUS* Ag. (fossil). A synonym of *BOTHROLEPIS*.
- Coccosteus** Agassiz, 22; orthotype *C. DECIPIENS* Ag. (fossil).
- Polyphractus** Agassiz, V, 29; orthotype *P. PLATYCEPHALUS* Ag. (fossil). A synonym of *DIPTERUS* Sedgwick & Murchison.
- Carangopsis** Agassiz, V, 39; logotype *C. LATIOR* Ag. (fossil). Published as name only, *Neues Jahrb.*, 1835, 293.
- Amphistium** Agassiz, V, 44; orthotype *A. PARADOXUM* Ag. (fossil). (Noted as name only, *Neues Jahrb.*, 1835, 294.)
- Halecopsis** Agassiz, V, 44; orthotype *H. LÆVIS* Ag. (fossil); names only; given definition by Woodward, 1901.
- Palimphyes** Agassiz, V, 46; logotype *P. LONGUS* Ag. (fossil).
- Archæus** Agassiz, V, 49; orthotype *A. GLARISIANUS* Ag. (fossil).
- Isurus** Agassiz, V, 51; orthotype *ISURUS MACRURUS* Egert. (fossil). (Printed as name only by Egerton, *Cat Foss. Fish*, 1837.) Name preoccupied; replaced by *ISURICHTHYS* Woodward, 1901.
- Pleionemus** Agassiz, V, 52; orthotype *P. MACROSPONDYLUS* Ag. (fossil). Name only. A fragment of an *ARCHÆUS*.
- Ductor** Agassiz, V, 53; orthotype *D. LEPTOSOMUS* Ag. (fossil). Printed in 1834 as name only in *Verhandl. Mus. Böhmen*, 66.
- Glyptopomus** Agassiz, 57; orthotype *G. MINOR* Ag. (fossil).
- Placothorax** Agassiz, 134; orthotype *P. PARADOXUS* Ag. (fossil). A synonym of *BOTHRIOLEPIS*.
- Platygnathus** Agassiz, V, 61; orthotype *P. JAMESONI* Ag. (fossil). A synonym of *HOLOPTYCHUS*.
- Glyptolepis** Agassiz, V, 62; logotype *G. LEPTOPTERUS* Ag. (fossil).
- Goniognathus** Agassiz, V, 63; logotype *G. MAXILLARIS* Ag. (fossil); name only. A synonym of *AMPHERISTUS* König.

- Phyllolepis** Agassiz, V, 67; orthotype *P. CONCENTRICA* Ag. (fossil).
Nemopteryx Agassiz, V, 75; orthotype *CYCLURUS CRASSUS* Egert. (fossil).
Holosteus Agassiz, V, 85; orthotype *H. ESOCINUS* Ag. (fossil).
Hemirhynchus Agassiz, V, 87; orthotype *HISTIOPHORUS DESHAYESI* Ag. (fossil).
 Name preoccupied; perhaps the same as *HOMORHYNCHUS* Van Beneden, 1873.
Istieus Agassiz, V, 91; logotype *I. GRANDIS* Ag. (fossil). An extinct ally of *PTEROTH-RISSUS* Hilgendorf.
Sphyrænodus Agassiz, V, 98; orthotype *SPHYRÆNODUS PRISCUS* Ag. (fossil). Name printed by Owen, 1841.
Cœlorhynchus Agassiz, V, 92; orthotype *C. RECTUS* Ag. (fossil); name preoccupied.
Hypsodon Agassiz, V, 101; orthotype *H. TOLIAPICUS* Ag., name only (fossil). Apparently a synonym of ally of *MEGALOPS* Lac.
Osmeroides Agassiz, V, 103; orthotype *O. MONASTERI* Ag. (fossil). The name has been transferred by authors to *SALMO LEWESIENSIS* Mantell, the type of *HOLCOLEPIS* von der Marck. *OSMEROIDES* should replace *SARDINIOIDES* von der Marck.
Rhamphognathus Agassiz, V, 9, 104; orthotype *R. PARALEPOIDES* Ag. (fossil).
Mesogaster Agassiz, V, 9, 105; orthotype *M. SPHYRÆNOIDES* Ag. (fossil).
Spinacanthus Agassiz, V, 107; orthotype *S. BLENNOIDES* Ag. (fossil).
Acrognathus Agassiz, V, 108; orthotype *A. BOOPS* Ag. (fossil).
Rhynchorinus Agassiz, V, 139; orthotype *R. BRANCHIALIS* Ag. (fossil); name only; validated by Woodward, 1901.
Cœlocephalus Agassiz, V, 139; orthotype *C. SALMONEUS* Ag. (fossil); name only. Preoccupied before defined by *CÆLOCEPHALUS* Clark, 1860, and by *CÆLOCEPHALUS* Gilbert & Cramer, 1897; replaced by *EOTHYNNUS* Woodw., 1901.
Halecopsis Agassiz, V, 139; orthotype *H. LÆIS* Ag. (fossil) = *OSMEROIDES INSIGNIS* Delvaux & Ortlieb (fossil); name only; validated by Woodward, 1901.
Elopides Agassiz, V, 139; orthotype *E. COULONI* Ag. (fossil); name only; validated by Woodward, 1901.
310. COCCO (1844). *Intorno ad alcuni nuovi pesci del mare di Messina*. Lettera del Prof. Anastasio Cocco al Signor Augusto Krohn.
 ANASTASIO COCCO.
Krohnus Cocco, 1; orthotype *K. FILAMENTOSUS* Cocco. Young of *CÆLORHYNCHUS* Giorna.
Bibronia Cocco, 15; orthotype *B. LIGULATA* Cocco. Larva of *SYMPHURUS* Raf.
Peloria Cocco, 21; orthotype *P. HECKELI* Cocco. A larva of *PLATOPHRYS* Sw.
Coccolus (Bonaparte) Cocco, 21; orthotype *C. ANNECTENS* Cocco. A larva of *PLATOPHRYS* Sw.
311. CUVIER & VALENCIENNES (1844). *Histoire naturelle des poissons*. XVII.
 ACHILLE VALENCIENNES.
Catla Cuvier & Valenciennes, XVII, 140; tautotype *CYPRINUS CATLA* Ham. A synonym of *GIBELION* Heckel.
Sclerognathus Cuvier & Valenciennes, XVII, 472; logotype, restriction of Günther, 1868, *SCLEROGNATHUS CYPRINELLA* Cuv. & Val.; the original diagnosis drawn up from *CATOSTOMUS CYPRINUS* Le Sueur, a species of *CARPIODES* Raf. A synonym of *ICTIOBUS* Raf., as here accepted. This view is not taken by Fowler, who regards *CARPIODES CYPRINUS* as type of *SCLEROGNATHUS* and gives to *I. CYPRINELLA* the new name of *MEGASTOMATOBUS*.

312. EGERTON (1845). *Description of a Fossil Ray from Mount Lebanon* (*Cyclobatis oligodactylus*). Quart. Journ. Geol. Soc., I.

PHILIP DE MALPAS GREY EGERTON.

Cyclobatis Egerton, IV, 442; orthotype *C. OLIGODACTYLUS* Egert. (fossil).

313. EICHWALD (1844). *Ueber die Fische des devonischen Systems in der Gegend von Pawlowsk*. Bull. Soc. Nat. Moscow, XVII.

CARL EDWARD VON EICHWALD.

Sclerolepis Eichwald, XVII, 828; orthotype *S. DECORATA* Eichw. (fossil). A synonym of **GLYPTOLEPIS**.

Microlepis Eichwald VXII, 830; logotype *M. EXILIS* Eichw. (fossil). A doubtful genus, the name preoccupied in reptiles.

Chiastolepis Eichwald, XVIII, 831; orthotype *C. CLATHRATA* Eichw. (fossil).

[GOLDFUSS (1844). **SCLEROCEPHALUS HAEUSERI** Goldfuss, 1844, described as a ganoid fish, is a reptile.]

314. KONINCK (1844). *Description des animaux fossiles qui se trouvent dans le terrain carbonifère de Belgique*.

LAURENT (GUILLAUME) DE KONINCK (1809-1887).

Campodus Koninck, 617; orthotype *C. AGASSIZIANUS* Koninck (fossil).

315. McCLELLAND (1844). *Description of a Collection of Fishes Made at Chasun and Ningpo in China by G. R. Playfair*. Journ. Nat. Hist. Calcutta, IV.

JOHN McCLELLAND.

Cossyphus McClelland, IV, 403; orthotype *C. ATER* McCl. Preoccupied; replaced by **PHAGORUS** McCl.

Phagorus McClelland, IV, 403; orthotype *COSSYPHUS ATER* McCl. = **MACROPTERONOTUS JAGUR** Ham. Replaces **COSSYPHUS** McCl., preoccupied.

Chætomus McClelland, IV, 405; orthotype *C. PLAYFAIRI* McCl.

Murænesox McClelland, V, 408; logotype *M. TRICUSPIDATA* McCl.

316. McCLELLAND (1844). *Apodal Fishes of Bengal*. Journ. Nat. Hist. Calcutta, V.

JOHN McCLELLAND.

Lycodontis McClelland, V, 173; logotype *L. LITERATA* McCl., as restricted by Jordan & Evermann, 1896. A synonym of **GYMNOTHORAX** Bloch, as here understood.

Thærodon McClelland, V, 174; orthotype *T. RETICULATA* McCl. A synonym of **GYMNOTHORAX**.

Strophidon McClelland, V, 187; orthotype *LYCODONTIS LONGICAUDATA* McCl. A synonym of **GYMNOTHORAX**, the name wrongly transferred by Bleeker and Günther to the genus **PSEUDOCIDNA** Blkr.

Ophicardia McClelland, V, 191; orthotype *O. PHAYRIANA* McCl. A synonym of **FLUTA** Bl. & Schn. = **MONOPTERUS** Lac.

Pneumabranthus McClelland, V, 192; logotype *P. STRIATUS* McCl. A synonym of **AMPHIPNOUS** Müller.

Ophisternon McClelland, V, 197; logotype *O. BENGALENSIS* McCl. A synonym of **SYMBRANCHUS** Bloch.

Ptyobranthus McClelland, V, 200; logotype *P. ARUNDINACEUS* McCl. A synonym of **RAITOBOURA** Gray = **MORINGUA** Gray.

Ophithorax McClelland, V, 212; logotype "*OPHISURUS OPHIS* Lac." (*MURÆNA MACULOSA* Cuv.). The species called *MURÆNA OPHIS* by Linnæus is the type of

the genus *OPHICHTHUS* of Ahl. *MURÆNA OPHIS* Bloch is probably the same and *M. OPHIS* Lac. seems to be drawn from the same material. The figure of Lacépède is the sole basis of Cuvier's *MURÆNA MACULOSA*. All these accounts seem to refer to the fish called *OPHICHTHUS HAVANNENSIS* (Bl. & Schn.). The *MACULOSUS* of Kaup and Günther is a different fish, a species of *MYRICHTHYS*. McClelland places "*OPHISURUS OPHIS* Lac." first among his species of *OPHITHORAX*. We therefore take it as his type, although his description is rather dubious. "Dorsal fin broad, anal narrow; body and dorsal covered with large round spots. Pectoral fin very minute. Seas of Europe." The genus is defined: "Pectoral fins very small so as to be scarcely perceptible." It is possible that this description applies to the species called *OPHICHTHYS MACULOSUS* by Günther (not by Cuvier). This is a species of *MYRICHTHYS*, thus far without tenable name. Using Günther's description of *OPHICHTHYS MACULOSUS* as the type, the species may be named *MYRICHTHYS GÜNTHERI* Jordan. It seems best to regard *OPHITHORAX* as a synonym of *OPHICHTHYS* Ahl, rather than to substitute it on doubtful grounds for *MYRICHTHYS* or for *CHLEVASTES (COLUBRINUS)*.

317. MEYER & PLIENINGER (1844). *Paläontologie von Württemberg*.
CHRISTIAN ERICH VON MEYER (1801-1894); WILHELM HEINRICH THEODOR
VON PLIENINGER (1795-1879).

Thectodus Meyer & Plieninger, 116; logotype *T. INFLATUS* Müller & Plieninger (fossil). A synonym of *ACRODUS*.

318. MÜLLER & TROSCHEL (1844). *Synopsis generum et specierum familiæ Characinarum*. Wiegmann's *Archiv. Naturg.* (Also in *Horæ Ichthyologicæ*, III, 1845.)

JOHANNES MÜLLER; FRANZ HERMANN TROSCHEL (1810-1882).

Chilodus Müller & Troschel, 85; haplotype *CHILODUS PUNCTATUS* M. & T. Preoccupied; replaced by *MICRODUS* Kner, 1859; also preoccupied, and by *CÆNOTROPUS* Gthr., 1864.

Alestes Müller & Troschel, 88; orthotype *SALMO NILOTICUS* Geoffroy St. Hilaire.

Brycon Müller & Troschel, 90; logotype *CHARACINUS MICROLEPIDOTUS* Cuv.

Exodon Müller & Troschel, 91; haplotype *EXODON PARADOXUS* M. & T. Said to be preoccupied; replaced by *HYSTRICODON* Gthr. 1864

Epicyrtus Müller & Troschel, 92; haplotype *SALMO GIBBOSUS* Gronow. Preoccupied; replaced by *ANACYRTUS* Gthr., 1864. A synonym of *CHARAX* (Gronow) Scopoli.

Xiphorhamphus Müller & Troschel, 92; orthotype *SALMO FALCATUS* Bloch. Substitute for *XIPHORHYNCHUS* Ag., preoccupied. This name is also preoccupied and changed to *ACESTRORHYNCHUS* Eigenmann (1903). "Nomen *XIPHORHYNCHUS* usurpatum in Ornithologiæ" (M. & T.).

Hydrolycus Müller & Troschel, 93; orthotype *HYDROCYON SCOMBEROIDES* Cuv.

Pygocentrus Müller & Troschel, 94; logotype *SERRASALMO PIRAYA* Cuv.

Pygopristis Müller & Troschell, 95 logotype *SERRASALMO DENTICULATUS* Cuv.

Catoprion Müller & Troschel, 96; haplotype *SERRASALMO MENTO* Cuv.

Myleus Müller & Troschel, 98; orthotype *MYLEUS SETIGER* Müller.

319. NARDO (1844). *Proposizione per la formazione di un nuovo genere di Selachi chiamato Caninoa o Caninotus, che costituirebbe una nuova sottofamiglia prossima ai Notidani*. Ann. Soc. Lombardo-Veneto, III.

GIOVANNI DOMENICO NARDO.

Caninoa Nardo, 8; orthotype *SQUALUS BARBARUS* (Chierigini MSS.) = *C. CHIERIGHINI* Nardo. An anomalous shark, not since recognized, if existing.

Caninotus Nardo, 8; orthotype **CANINOA CHIEREGHINI** Nardo. (**SQUALUS BARBARUS** Chierigini MSS.) Name a provisional substitute for **CANINOA**.

320. **PETERS** (1844). *Ueber einem den Lepidosirens annectens verwandten, mit Lungen und Kiemen zugleich versehenen Fisch aus den Sumpfen von Quellimane (Rhinocryptis amphibia)*. Mon. Akad. Berlin.

WILHELM CARL HARTWIG PETERS (1815-1883).

Rhinocryptis Peters, 414; orthotype **R. AMPHIBIA** Peters = **LEPIDOSIREN ANNECTENS** Owen. A synonym of **PROTOPTERUS** Owen.

- 320A. **REUSS** (1844). *Geognostische Skizzen aus Böhmen*.

AUGUST EMANUEL VON REUSS (1811-1873).

Thaumaturus Reuss, II, 264; orthotype **T. FURCATUS** Reuss (fossil). An extinct form of trout.

321. **RICHARDSON** (1844). *Description of a Genus of Chinese Fish (Hapalogenys)*. Ann. Mag. Nat. Hist., XIII.

JOHN RICHARDSON.

Hapalogenys Richardson, XIII, 463; logotype **H. NITENS** Rich. = **POGONIAS NIGRIPINNIS** T. & S.

322. **RICHARDSON** (1844). *Description of a New Genus of Gobioid Fish (Channichthys)*. Ann. Mag. Nat. Hist. XIII.

JOHN RICHARDSON.

Channichthys Richardson; orthotype **C. RHINOCERATUS** Rich. Name afterward spelled **CHÆNICHTHYS**, as dictated by a purist, an unwarranted change.

323. **RICHARDSON** (1844). *Generic Characters of an Undescribed Australian Fish (Pataecus fronto)*. Ann. Mag. Nat. Hist., XIV.

JOHN RICHARDSON.

Pataecus Richardson, XIV, 280; orthotype **P. FRONTO** Rich.

324. **RICHARDSON** (1844). *Ichthyology*. (In *The Zoology of the Voyage of H.M.S. "Sulphur", Under the Command of Captain Sir Edward Belcher, During the Years 1836-42*. Edited by R. B. Hinds).

JOHN RICHARDSON.

Chæturichthys Richardson, 54; orthotype **C. STIGMATIAS** Rich.

Centridermichthys Richardson, 74; orthotype **C. ANSATUS** Rich. = **TRACHIDERMUS FASCIATUS** Heckel. Replaces **TRACHIDERMUS** Heckel, regarded as preoccupied by **TRACHYDERMA**.

Calloptilum Richardson, 94; orthotype **C. MIRUM** Rich. A synonym of **BREGMACEROS** Cantor.

Astronesthes Richardson, 97; orthotype **A. NIGRA** Richardson.

325. **RICHARDSON** (1844). *The Zoology of the Voyage of H.M.S. "Erebus and Terror", Under the Command of Captain Sir J. C. Ross . . . During 1839-43*. Edited by J. Richardson . . . and J. E. Gray. London.

JOHN RICHARDSON.

Notothenia Richardson, 5; logotype **N. CORIICEPS** Rich.

Harpagifer Richardson, 11; orthotype **CALLIONYMUS BISPINIS** Forster.

Chænichthys Richardson, 12; orthotype **C. RHINOCERATUS** Rich.; a substitute for **CHANNICHTHYS**.

Pagetodes Richardson, 15; orthotype (not given a specific name, a cat having run away with the type specimen).

- Emmelichthys** Richardson, 47; orthotype *E. NITIDUS* Rich.
Cheilobranchus Richardson, 50; logotype *C. DORSALIS* Rich. A synonym of *ALABES* Cuv.
Prymnothonus Richardson, 51; orthotype *P. HOOKERI* Rich. A larval form.
Xystophorus Richardson, 52; very young of *NAUCRATES*.
Aleuterius (Cuvier) Richardson, 66; after *ALUTERA* (Cuv.) Oken. One of many varied spellings of *ALUTERA*, derived from "les *ALUTÈRES*", as *ALUTARIUS*, *ALUTERUS*, etc. *ALUTERA* has priority.
Oxybeles Richardson, 74; orthotype *O. HOMEI* Rich. A synonym of *CARAPUS* (*FIERASFER*).
Molariii (*Molarius*) Richardson, 79; logotype "*MURÆNA OPHIS*" = *ECHIDNA NEBULOSA* (plural form only). A synonym of *ECHIDNA* Forster.
Channo-Muræna Richardson, 96 orthotype *ICHTHYOPHIS VITTATUS* Rich.
Congrus Richardson, 107; orthotype *MURÆNA CONGER* L. A variant spelling of *CONGER*.
Psammoperca Richardson, 115; orthotype *Ps. DATNIOIDES* Rich. = *LABRAX WAIGIENSIS* Cuv. & Val.; replaces *CNIDON* M. & T. (1849).
Gadopsis Richardson, 122; orthotype *G. MARMORATUS* Rich.

326. TEMMINCK & SCHLEGEL (1844). *Fauna Japonica* (part).

COENRAAD JACOB TEMMINCK; HERMANN SCHLEGEL.

- Chætopterus** Temminck & Schlegel, 78; orthotype *C. SIEBOLDI* Blkr. Name pre-occupied; replaced by *PRISTIPOMOIDES* Blkr.
Melanichthys Temminck & Schlegel, 75; orthotype *CRENIDENS MELANICHTHYS* Rich. A synonym of *GIRELLA* Gray.
Ditrema Temminck & Schlegel, 77; orthotype *D. TEMMINCKI* Blkr.
Hypsinotus Temminck & Schlegel, 84; orthotype *H. RUBESCENS* Gthr. A synonym of *ANTIGONIA* Lowe.
Scarodon Temminck & Schlegel, 89; logotype *S. FASCIATUS* T. & S. A synonym of *OPLEGNATHUS* Rich., 1840; available if the latter is regarded as pre-occupied.

327. VALENCIENNES (1844). *Ichthyologie des îles Canaries, ou Histoire naturelle des poissons, rapportés par MM. Webb & Berthelot*. In Webb, *Histoire naturelle des îles Canaries*. II, 1835-1850.

ACHILLE VALENCIENNES.

- Nemobrama** Valenciennes, 40; orthotype *N. WEBBI* Val. = *POLYMIXIA NOBILIS* Lowe. A synonym of *POLYMIXIA* Lowe.
Crius Valenciennes, 43; orthotype *C. BERTHELOTI* Val. = *SCHEDOPHILUS MEDUSOPHAGUS*. A synonym of *SCHEDOPHILUS* Cocco.
Asellus Valenciennes, 76; orthotype *ASELLUS CANARIENSIS* Val. A synonym of *MORA* Risso.

1845

328. AGASSIZ (1845). *Rapport sur les poissons fossiles de l'argile de Londres*. Rept. British Assoc. Adv. Sci.

LOUIS AGASSIZ.

- Rhinocephalus** Agassiz, 294; orthotype *R. PLANICEPS* Ag. (fossil). Name only, noted by Woodward, 1901.
Sciænurus Agassiz, 295; orthotype *S. BOWERBANKI* Ag. (fossil) A synonym of *SPARNODUS*.

- Pomaphractus** Agassiz, 307; orthotype *P. EGERTONI* Ag. (fossil); name only; identification by Woodward, 1901. A synonym of *BRYCHÆTUS* (Ag.) Woodw.
- Cœlopoma** Agassiz, 307; orthotype *C. COLEI* Ag. (fossil); name only; preoccupied (Adams, 1867) and replaced by *EOCŒLOPOMA* Woodw., 1901.
- Eurygnathus** Agassiz, 307; orthotype *E. CAVIFRONS* Ag. (fossil). Name only; validated by Woodward, 1901; preoccupied and replaced by *ESOCELOPS* Woodw.
- Percostoma** Agassiz, 307; orthotype *P. ANGUSTA* Ag. Name only; noted by Woodward, *Cat.*, 519, 1901.
- Cœloperca** Agassiz, 307; orthotype *CŒLOPERCA LATIFRONS* Ag. (fossil). Name only; noted by Woodward, *Cat.*, IV, 519.
- Bothrosteus** Agassiz, 307; orthotype *B. MINOR* Ag. (fossil). Name only, noted by Woodward, *Cat.*, IV, 611, 1901.
- Calopomus** Agassiz, 307; orthotype *C. POROSUS* Ag. (fossil), name only.
- Brachygnathus** Agassiz, 307; orthotype *B. TENUICEPS* Ag. (fossil). Name only, noted by Woodward *Cat.*, 1901, 519; name preoccupied.
- Podocephalus** Agassiz, 307; orthotype *P. NITIDUS* Ag. (fossil). Name only; noted by Woodward, *Cat.*, 519, 1901.
- Brychætus** Agassiz, 308; orthotype *B. MULLERI* Ag. (undefined) (fossil); first defined by Woodward, 1901.
- Merlinus** Agassiz, 308; orthotype *M. CRISTATUS* Ag. (fossil), noted by Woodward, 1901.
- Scombrinus** Agassiz, 308; orthotype *S. NUCHALIS* Ag. (fossil); name only; validated by Woodward, 1901.
- Phalacrus** Agassiz, 308; orthotype *P. CYBIOIDES* Ag. (fossil); name only; referred by Woodward to synonymy of *EOTHYNNUS* Woodw.
- Rhonchus** Agassiz, 308; orthotype *R. CARANGOIDES* Ag. (fossil). Name only; explained by Woodward, *Cat.*, IV, 458. A synonym of *EOTHYNNUS* Woodw.
- Naupygus** Agassiz, 308; orthotype *N. BUCKLANDI* Ag. (fossil). Name only; noted by Woodward, *Cat.*, 611 (1901).
- Acestrus** Agassiz, 308; orthotype *A. ORNATUS* Ag. (fossil). Name only; validated by Woodward, 1901, perhaps to be regarded as preoccupied by *ACESTRA* Jardine, 1831.
- Laparus** Agassiz, 308; orthotype *L. ALTICEPS* Ag. (fossil: name only; discussed by Woodward, 1901).
- Labrophagus** Agassiz, 308; orthotype *L. ESOCINUS* Ag. (fossil). Name only; noticed by Woodward, *Cat.*, IV, 611, 1901.
- Loxostomus** Agassiz, 308; orthotype *L. MANCUS* Ag. (fossil). Name only; noted by Woodward, *Cat.*, IV, 612, 1901.
- Pachycephlus** Agassiz, 308; orthotype *P. CRISTATUS* Ag. (fossil). Name only; noted by Woodward, *Cat.*, IV, 612, 1901.

Most of the foregoing names from Agassiz's list of the Egerton collection have been identified from labeled specimens and several have justly come into use as dating, not from 1845, but from their first definition. Woodward gives the following additional generic names, of which nothing is known, and which, until defined, have no place in the system.

- Echenus** (POLITUS).
Gadopsis (BREVICEPS).
Phasganus (DECLIVIS).
Rhipidolepis (ELEGANS).
Synophrys (HOPEI).

329. AGASSIZ (1845). *Monographie des poissons fossiles du Vieux Grès Rouge, ou Système Dévonien (Old Red Sandstone) des îles Britanniques et de Russie. Part 2.*

LOUIS AGASSIZ.

- Diplacanthus** Agassiz, 34, 40; orthotype *D. STRIATUS* Ag.
Lamnodus Agassiz, 83; orthotype *DENDRODUS BIPORCATUS* Owen (fossil). A synonym of *DENDRODUS*.
Psammosteus Agassiz, 103; logotype *P. MÆANDRINUS* Ag. (fossil).
Homacanthus, 113; orthotype *H. ARCUATUS* Ag. (fossil).
Haplacanthus Agassiz, 114; orthotype *H. MARGINALIS* Ag. (fossil).
Odontacanthus Agassiz, 114; logotype *O. CRENATUS* Ag. (fossil). A synonym of *ASTROLEPIS*.
Narcodes Agassiz, 115; orthotype *N. PUSTULIFER* Ag. (fossil). A supposed synonym of *ASTROLEPIS*.
Byssacanthus Agassiz, 116; orthotype *B. CRENULATUS* Ag. (fossil).
Naulas Agassiz, 116; orthotype *N. SULCATUS* Ag. (fossil).
Climatius Agassiz, 119; orthotype *C. RETICULATUS* (Ag. fossil).
Cosmacanthus Agassiz, 120; orthotype *C. MALCOLMSONI* Ag. (fossil).
Parexus Agassiz, 120; orthotype *P. INCURVUS* Ag. (fossil).
Homothorax Agassiz, 134; orthotype *H. FLEMINGI* Ag. (fossil). A synonym of *BOTHRIOLEPIS*.
Chelyophorus Agassiz, 135; orthotype *C. VERNEULI* Ag. (fossil).
Actinolepis Agassiz, 141; orthotype *A. TUBERCULATUS* Ag. (fossil). A supposed synonym of *ASTROLEPIS*.
Stagonolepis Agassiz (not quoted by Woodward; referred to the *DIPTERINI*).
 330. BLEEKER (1845). *Bijdragen tot geneeskunde topographie van Batavia. Generisch overzicht der fauna. II, 1845. Arch. Nederl. Indie.*
 PIETER BLEEKER (1819-1878).
Pinjalo Bleeker, II, 251 (1845); orthotype *CÆSIO PINJALO* Blkr. = *P. TYPUS* Blkr.
Heterodon Bleeker, 323; orthotype *H. ZONATUS* Blkr. Name preoccupied in serpents; replaced by *HETEROGNATHODON* Blkr., 1848.
Mesopristes Bleeker, 523; orthotype *M. MACRACANTHUS* Blkr.; a synonym of *DATNIA* Cuv. & Val.

331. BONAPARTE (1845). *Catalogo metodico dei pesci Europei. Atti Sci. Ital.* (Reprint as a separate volume, Naples, 1846.)

CARLO L. PRINCIPE BONAPARTE.

Some of the names here used may have occurred in other papers of 1844 and 1845.

- Glaucostegus** Bonaparte, 14; orthotype *G. CEMICULUS* Bon. ("RHINA RHINOBATUS SHAW = *RH. CEMICULUS* Geoffroy.") A synonym of *RHINOBATUS*.
Acanthias Bonaparte, 15; orthotype *SQUALUS ACANTHIAS* L. *A. VULGARIS* Bon. same as *ACANTHIAS* Risso. A synonym of *SQUALUS* L., as restricted.
Lepidorhinus Bonaparte, 16; orthotype *SQUALUS SQUAMOSUS* Broussonnet.
Scymnorhinus Bonaparte, 16; orthotype *S. LICHIA*. Replaces *SCYMNUS* Cuv., preoccupied.
Spinax Bonaparte, 16; tautotype *SQUALUS SPINAX* L. Same as *SPINAX* Cuv. A synonym of *ETMOPTERUS* Raf.
Sterledus Bonaparte, 21; orthotype *ACIPENSER RUTHENUS* Bon. Same as *STERLETA* Gldenstdt.

- Cenisophius** Bonaparte, 29; orthotype *LEUCISCUS PAUPERUM* Bon. Replaces *LEUCOS* Heckel, preoccupied in birds, as *LEUCUS*.
- Gardonus** Bonaparte, 29; orthotype *LEUCISCUS DECIPIENS* Ag. A synonym of *CENISOPHIUS*.
- Pigus** Bonaparte, 29; tautotype *CYPRINUS PIGUS* Cloquet. Apparently a synonym of *CENISOPHIUS*.
- Cephalus** Bonaparte, 30; orthotype *CYPRINUS CEPHALUS* L. Name preoccupied; a synonym of *LEUCISCUS* Cuv.
- Microlepis** Bonaparte, 30; no diagnosis; orthotype *M. TURSKYI* Bon. A synonym of *LEUCISCUS* Cuv.
- Hegerius** Bonaparte, 31; orthotype *SCARDINIUS HEGERI* Bon., *HEGERIUS TYPUS* Bon. An ally of *TELESTES*; the name later spelled *HEGERIUS*.
- Scardinius** Bonaparte, 31; logotype *LEUCISCUS SCARDAFA* Bon.
- Pollachius** (Nilsson) Bonaparte 45; orthotype *GADUS POLLACHUS* L. = *GADUS VIRENS* L.
- Coccolus** Bonaparte, 47; orthotype *C. ANNECTENS* Bon., a substitute for *KROHNIUS* Cocco (*K. FLAMENTOSUS*, which is the larva of the *MACRURID*, *CÆLORHYNCHUS*, *Giorna*).
- Cynoglossa** Bonaparte, 48; orthotype *PLEURONECTES CYNOGLOSSUS* L. A synonym of *CYNICOGLOSSUS* Bon., not *CYNGLOSSUS* Ham.
- Plagusia** Bonaparte, 51; orthotype *PLAGUSIA LACTEA* Bon. A substitute for *PLAGUSIA* Cuv., preoccupied. A synonym of *SYMPHURUS* Raf.
- Scorpichthes** Bonaparte, 62; logotype *COTTUS SCORPIUS* L., in plural form only. A synonym of *MYOXOCEPHALUS* Stellar.
- Gastronemus** (Cocco) Bonaparte, 68; orthotype *PHAROPTYRYX BENOITI* Rüppell. Name preoccupied. A synonym of *MORA* Risso.
- Tinimogaster** (Cocco) Bonaparte, 68; no definition; quoted by Bonaparte in connection with *GASTRONEMUS* Cocco. A synonym of *MORA* Risso, apparently a substitute for *GASTRONEMUS*, preoccupied.
- Selenia** Bonaparte, 75; orthotype *CARANX LUNA* Geoffroy St. Hilaire = *SCOMBER GUARA* Bonnaterre. Apparently replaces *URASPIS* Blkr.

332. BRODIE (1845). (*Fossil Insects*.)

PETER BELLINGER BRODIE.

- Oxygonius** (Agassiz) Brodie, 16; orthotype *O. TENUIS* Ag. (fossil). Young fishes, indeterminate.
- Ceramurus** (Egerton) Brodie, 17; orthotype *C. MACROCEPHALUS* Egert. (fossil).

333. COSTA (1845). (*Fossil Fishes*.) Atti Acad. Pontan. Napoli.

ORONZIO GABRIELE COSTA.

- Megastoma** Costa, V, 287; orthotype *M. APENNINUM* Costa (fossil). A synonym of *LEPTOLEPIS*.

334. KRÖYER (1845). *Icelus Hamatus*. Naturhist. Tidsskr., I.

HENRIK NICOLAJ KRÖYER (1799-1870).

- Icelus** Kröyer, I, 253; orthotype *I. HAMATUS* Kröyer.
- Phobetor** Kröyer, I, 263; orthotype *COTTUS TRICUSPIS* Reinh. A synonym of *GYMNOCANTHUS* Sw.

335. KRÖYER (1845). *Carelophus stromii*. Naturhist. Tidsskr., I.

HENRIK NICOLAJ KRÖYER.

- Carelophus** Kröyer, I; orthotype *C. STRÆMI* Kröyer. A synonym of *CHIROLOPHIS* Sw.

336. KRÖYER (1845). *Caracanthus typicus*. Naturhist. Tidsskr., I.

HENRIK NICOLAJ KRÖYER.

Caracanthus Kröyer, I, 267; orthotype *C. TYPICUS* Kröyer = *MICROPUS MACULATUS* Gray. Replaces *MICROPUS* Gray, preoccupied.

337. KRÖYER (1845). *Ceratis hollbolli*. Naturhist. Tidsskr., I.

HENRIK NICOLAJ KRÖYER.

Ceratias Kröyer, I, 639; orthotype *C. HOLLBOLLI* Kröyer.

338. McCLELLAND (1845). *Description of Four Species of Fishes from the Rivers at the Foot of the Boutan Mountains*. Journ. Nat. Hist. Calcutta, V, 1840, 272, 282.

JOHN McCLELLAND.

Ctenops McClelland, V, 281; orthotype *C. NOBILIS* McCl. A synonym of *OSPHEOMENUS* Lac.

339. MÜLLER & TROSCHER (1845). *Horæ Ichthyologicae. Beschreibung und Abbildung neuer Fische; die Familie Characinen*. I. Berlin.

JOHANNES MÜLLER: FRANZ HERMANN TROSCHER.

Distichodus Müller & Troschel, I, 12; orthotype *SALMO NILOTICUS* Hasselquist = *CHARACINUS NEFASCH* Lac.

Agoniates Müller & Troschel, I, 19; haplotype *AGONIATES HALECINUS* M & T.

Cnidon Müller & Troschel, I, 21; orthotype *CNIDON CHINENSIS* M. & T.

340. OWEN (1845). *Odontography*.

RICHARD OWEN.

Pisodus (Agassiz) Owen, 138; orthotype *P. OWENI* Ag. (fossil). An ally of *ALBULA* Gronow.

341. RICHARDSON (1845). *Generic Characters of Gasteroschisma melampus, a Fish which Inhabits Port Nicholson, New Zealand*. Ann. Mag. Nat. Hist., XV.

JOHN RICHARDSON.

Gasteroschisma Richardson, 346; orthotype *G. MELAMPUS* Rich.

342. RICHARDSON (1845). *Report on the Ichthyology of the Seas of China and Japan*. Rept. Brit. Assoc. Adv. Sci.

JOHN RICHARDSON.

Ilisha (Gray) Richardson, 306; haplotype *ILISHA ABNORMIS* Gray = *ALOSA ELONGATA* Bennett. Replaces *PELLONA* Cuv. & Val., and *ZUNASIA* Jordan & Thompson.

343. SOUTH (1845). *Encyclopædia Metropolitana*. (Edition for 1845.)

JOHN FLINT SOUTH.

Thunnus South, V, 620; orthotype *SCOMBER THYNNUS* L. A substitute for *THYNNUS* Cuv., preoccupied in butterflies.

344. TEMMINCK & SCHLEGEL (1845). *Fauna Japonica* (issued in parts).

CÆNRAAD JACOB TEMMINCK; HERMANN SCHLEGEL.

Erythrichthys Temminck & Schlegel, 1845, 117; orthotype *E. SCHLEGELI* Gthr. Name preoccupied; replaced by *ERYTHROCLES* Jordan, 1919.

Scombrops Temminck & Schlegel, 118; orthotype *S. CHEILODIPTEROIDES* Blkr. = *SCOMBER BOOPS* Houttuyn.

Dictyosoma Temminck & Schlegel, 139; orthotype *D. BURGERI* Van der Hoeven.

Cirrhilabrus Temminck & Schlegel, 167; orthotype *C. TEMMINCKI* Blkr.

1846

345. AGASSIZ (1846). *Nomenclator Zoologicus. Pisces.*

LOUIS AGASSIZ.

Hypeneus Agassiz, 190; logotype MULLUS BIFASCIATUS Lac. A corrected spelling of UPENEUS.346. AGASSIZ (1846). *Nomen manuscriptum in diversis museo usurpatum. Nomina systematica generum piscium, tam viventium quam fossilium. Addenda to Nomenclator Zoologicus. Pisces.*

LOUIS AGASSIZ.

The three names which follow occur in the *Nomenclator Zoologicus* as manuscript names used by Agassiz on labels in different museums. They have no place in the system.

Glaphyrodus Agassiz, Addenda, 3; species not named (same as OXYRHINA). A synonym of ISURUS Raf.**Holodus** Agassiz, Addenda, 3; species not named. A synonym of HEPTRANCHIAS (NOTIDANUS).**Oroptychus** Agassiz, Addenda, 4 species not named ("CESTRACIONTES").**Toxophorus**. This name is given by Agassiz, page 63, with no indication as to its author.347. BIBRON (1846). *Revue Zoologique.*

GABRIEL BIBRON (1806-1848).

Chilomycterus Bibron, 40; logotype DIODON RETICULATUS L.348. BRISOUT DE BARNEVILLE (1846). *Note sur le groupe des Gobiesoces.* Rev. Zool.

CHARLES N. F. BRISOUT DE BARNEVILLE (1823-1893).

Tomicodon Brisout de Barneville, 144; orthotype T. CHILENSIS Barn. A synonym of SICYASES M. & T.**Sicyogaster** Brisout de Barneville, 144; orthotype GOBIESOX MARMORATUS Jenyns. Name preoccupied; replaced by Gill.**Chorisochismus** Brisout de Barneville, 209; orthotype C. NUDUS Barn. = CYCLOPTERUS DENTEX Pallas.349. BRISOUT DE BARNEVILLE (1846). *Note sur le nouveau genre de la famille des Discoboles (Trachelochismus).* Rev. Zool.

CHARLES N. F. BRISOUT DE BARNEVILLE.

Trachelochismus Brisout de Barneville, 214; orthotype CYCLOPTERUS PINNULATUS Forster.350. COSTA (1846). *Fauna del regno di Napoli, ossia enumerazione di tutti gli animali che abitano le diverse regioni di questo regno e le acque che le bagnano*, etc. Vol. III.

ORONZIO GABRIELE COSTA.

Cynoponticus Costa, pl. 28; orthotype C. FEROX Costa = CONGER SAVANNA Cuv.351. CUVIER & VALENCIENNES (1846). *Histoire naturelle des poissons.* XVIII, 1835.

ACHILLE VALENCIENNES.

Grundulus Cuvier & Valenciennes, XVIII, 216; haplotype FUNDULUS BOGOTENSIS Humboldt. Eigenmann identifies this with CHARACIN, CTENOCHARAX BOGOTENSIS Regan, 1907.**Orestias** Cuvier & Valenciennes, XVIII, 221; logotype ORESTIAS CUVIERI Val.

Vastres Cuvier & Valenciennes, XIX, 433; orthotype *VASTRES CUVIERI* Val. = *SUDIS GIGAS* Cuv. Same as *SUDIS* Cuv., preoccupied by *SUDIS* Raf., 1810; replaced by *ARAPAIMA* M. & T., 1846.

Heterotis (Ehrenberg MS.) Cuvier & Valenciennes, XIX, 465; orthotype *HETEROTIS EHRENBURGI* Val. I do not find that Ehrenberg had published this name elsewhere. A synonym of *CLUPISUDIS* Sw.

Lebiasina Cuvier & Valenciennes, XIX, 531; haplotype *LEBIASINA BIMACULATA* Val.

Pyrrhulina Cuvier & Valenciennes, XIX, 534; haplotype *P. FILAMENTOSA* Val.

352. EICHWALD (1846). *Geognosy of Russia* (in Russian). Reproduced in 1860 in *Lethæa Rossica*.

CARL EDUARD VON EICHWALD.

Aulacosteus Eichwald; logotype (in 1860) *A. COCHLEARIFORMIS* Eichw. Same as *PTYCTODUS* Pander and, if eligible, of prior date.

353. KEYSERLING (1846). *Reise in das Petchoraland im Jahre 1843*.

ALEXANDER VON KEYSERLING.

Dimeracanthus Keyserling, 292b; orthotype *D. CONCENTRICUS* Keyserling (fossil).

354. KRÖYER (1846). (*Danmarks Fiske.*)

HENRIK NIKOLAJ KRÖYER.

Acantholepis Kröyer, III, 98; orthotype *ARGENTINA SILUS*. A synonym of *SILUS* Reinhardt and probably of *ARGENTINA* L.

355. LOWE (1846). *On a New Genus of the Family Lophiidae (les Pectorales pediculées, Cuv.) Discovered in Madeira*. Proc. Zool. Soc. London, XIV.

RICHARD THOMAS LOWE.

Chaunax Lowe, III, 339; orthotype *C. PICTUS* Lowe.

356. MEYER (1846). *Geologie von Jena*. Schmidt und Schleiden.

HERMANN VON MEYER.

Tholodus Meyer, I, 199; orthotype *T. SCHMIDTI* Meyer (fossil). Undetermined; perhaps an *ASTERODON*, perhaps a reptile.

357. MÜLLER (1846). (*Arapaima.*) Abhandl. Akad. Wiss. Berlin.

JOHANNES MÜLLER.

Arapaima Müller; haplotype *SUDIS GIGAS* Cuv. Replaces *SUDIS* Cuv., preoccupied, and *VASTRES* Cuv. & Val. of the same year but of later date, as Valenciennes quotes *ARAPAIMA*.

358. MÜNSTER (1846). *Ueber die im Korallenkalk des Lindner Berges bei Hannover vorcommenden Ueberreste von Fischen, etc.* Beiträge zur Petrefacten-Kunde.

GEORG MÜNSTER.

Radamas Münster, VII, 11, 28; orthotype *ASIMA JUGLERI* Giebel (fossil). Same as *ASIMA* Giebel and of prior date.

359. NORWOOD & OWEN (1846). *Description of a New Fossil Fish from the Palæozoic Rocks of Indiana*. Amer. Journ. Sci., I.

JOSEPH GRANVILLE NORWOOD; DAVID DALE OWEN.

Macropetalichthys Norwood & Owen, I, 371; orthotype *M. RAPHEIDOLABIS* Norwood & Owen (fossil).

359A. RICHARDSON (1846). *Stokes: Discoveries in Australia.*

JOHN RICHARDSON.

Assiculus Richardson, 492; orthotype *A. PUNCTATUS* Rich. A synonym of *PSEUDOCHEMIS* Rüppell.360. PETERS (1846). *Ueber eine neue Gattung von Labyrinthfischen . . . aus Quellimane.* Arch. Anat.

WILHELM CARL HARTWIG PETERS.

Ctenopoma Peters, 481; orthotype *C. MULTISPINIS* Peters.361. TEMMINCK & SCHLEGEL (1846). *Fauna Japonica* (part).

COENRAAD JACOB TEMMINCK; HERMANN SCHLEGEL.

Plecoglossus Temminck & Schlegel, 229; orthotype *P. ALTIVELIS* T. & S.**Ateleopus** Temminck & Schlegel, 255; orthotype *A. JAPONICUS* Blkr. Name preoccupied as *ATELOPUS*; replaced by *PODATELES* Boulenger.362. TSCHUDI (1846). *Untersuchungen über die Fauna Peruana.*

JOHANN JACOB TSCHUDI (1818-1882).

Cheilotrema Tschudi, 13; orthotype *C. FASCIATUM* Tschudi.**Chætostoma** (Heckel) Tschudi, 25; orthotype *C. LOBORHYNCHUS* Heckel. Said to be thus originally written by Heckel; spelled *CHÆTOSTOMUS* by Kner (1854) and by subsequent writers.**Discopyge** Tschudi, 32; orthotype *D. TSCHUDII* Tschudi.363. VALENCIENNES (1846). *Nouvelles observations sur l'Eremophilus.*

Recueil d'Observ. Zool., II.

ACHILLE VALENCIENNES.

Trichomycterus Valenciennes, 347; orthotype *T. NIGRICANS* Humboldt, 1811. Same as *THRYCOMYCTERUS*.

1847

364. BLEEKER (1847). *Siluroideorum bataviensium conspectus diagnosticus.* Verh. Batav. Genootsch., XXI.

PIETER BLEEKER.

Ketengus Bleeker, 9; orthotype *K. TYPUS* Blkr.**Osteogeneiosus** Bleeker, XXI, 49; orthotype *O. MACROCEPHALUS* Bleeker.**Batrachocephalus** Bleeker, XXI, 158, 375; orthotype *B. MICROPOGON* Blkr.365. BLEEKER (1847). *Pharyngognathorum Siluroideorumque species novæ Javanenses.* Nat & Geneesk. Arch. Neder.-Indie, IV.

PIETER BLEEKER.

Chærodon Bleeker, 10; orthotype *LABRUS MACRODONTUS* Lac. Replaces *CHÆROPS* Rüppell, 1852; later written *CHOIRODON*.366. BRISOUT DE BARNEVILLE (1847). *Note sur le genre Centropristis Cuvier.* Rev. Zool.

CHARLES N. F. BRISOUT DE BARNEVILLE.

Homodon Brisout de Barneville, 133; logotype *CENTROPRISTIS GEORGIANUS* Cuv. & Val. A synonym of *ARRIPIS* Jenyns.**Myriodon** Brisout de Barneville, 133; orthotype *CENTROPRISTIS SCORPÆNOIDES* Cuv. & Val. = *SCORPÆNA WAIGIENSIS* Q. & G. A synonym of *CENTROGENYS*.

367. BRISOUT DE BARNEVILLE (1847). *Note sur un nouveau genre d'Anguilliformes*. Rev. Zool.

CHARLES N. F. BRISOUT DE BARNEVILLE.

Ichthyapus Brisout de Barneville, 219; orthotype I. ACUTIROSTRIS Barn. A synonym of SPHAGEBRANCHUS Bloch.

368. CUVIER & VALENCIENNES (1847). *Histoire naturelle des poissons*. XX.
ACHILLE VALENCIENNES.

Sardinella Cuvier & Valenciennes, XX 261; logotype SARDINELLA AURITA Val.

Harengula Cuvier & Valenciennes, XX, 277; logotype HARENGULA LATULUS Val. (said to be from France, but apparently an American species, not the French "Blanquette", which is reputed to be the sprat (SPRATTELLA SPRATTUS) *fide* Cligny).

Pellona Cuvier & Valenciennes, XX, 300; logotype PELLONA ORBIGNYANA Val. = PRISTIGASTER FLAVIPINNIS Val. A synonym of ILISHA Gray (1846).

Rogenia Cuvier & Valenciennes, XX, 340; haplotype ROGENIA ALBA Val. Young of CLUPEA L. ("Whitebait").

Clupeonia Cuvier & Valenciennes, XX, 345; logotype CLUPEONIA JUSSIEUI Val. Very near HARENGULA Cuv. & Val.

Spratella Cuvier & Valenciennes, XX, 356; logotype SPRATTELLA PUMILA Val. Young of CLUPEA SPRATTUS L.

Kowala Cuvier & Valenciennes, XX, 362; logotype KOWALA ALBELLA Cuv. & Val. Very close to CLUPEONIA, if not identical with it.

Meletta Cuvier & Valenciennes, XX, 366; type MELETTA VULGARIS Val. (young of SPRATTELLA SPRATTUS). A synonym of SPRATTELLA Cuv. & Val.

Alausa Cuvier & Valenciennes, XX, 389; type ALAUSA VULGARIS = CLUPEA ALOSA L. A variant spelling of ALOSA Cuv.

Dussumieria Cuvier & Valenciennes, XX, 467; haplotype DUSSUMIERIA ACUTA Val.

369. EGERTON (1847). *On the Nomenclature of the Fossil Chimæroid Fishes*. Quart. Journ. Geol. Soc., III.

PHILIP DE MALPAS GREY EGERTON.

Dictyopyge Egerton, III, 276; orthotype CATOPTERUS MACRURUS Egert. (fossil).

Ischypterus Egerton, III, 277; orthotype F. LATUS Egert. (fossil). A synonym of SEMIONOTUS.

370. GIEBEL (1847). *Vier neue Fische aus dem dunkeln Kreide-Schiefer von Glarus*. Neues Jahrb. Mineral.

CHRISTOPH GOTTFRIED ANDREAS GIEBEL (1820-1881).

Palymphyes Giebel, 666; logotype P. CRASSUS Giebel.

Pachygaster Giebel, 667; orthotype P. SPINOSUS Giebel (fossil).

371. GIEBEL (1847). *Fauna der Vorwelt . . . monographisch dargestellt*.

CHRISTOPH GOTTFRIED ANDREAS GIEBEL.

Centrodus Giebel, 344; orthotype C. ACUTUS Giebel (fossil).

Chilodus Giebel, I, 352; orthotype (not named in Woodward). A tooth of dubious nature.

Oxytes Giebel, 364; orthotype O. OBLIQUA Giebel (fossil). A fossil homologue of CARCHARIAS Raf., ODONTASPIS Ag.

372. GUICHENOT (1847). *Notice sur un nouveau genre de Percoides (Pomanotis)*.
Rev. Zool., X.

ALPHONSE GUICHENOT.

Pomanotis Guichenot, 390; orthotype *P. RUBESCENS* Guich. A genus not since recognized. The type *P. RUBESCENS* was brought by Dussumier from Alipey,* a locality I do not find on the maps, but evidently in India or eastward. The genus is not related to EUCENTRARCHIDÆ, as its author suggests, but belongs probably to the NANDIDÆ (D. XIV, 14. A III, 9) near PRISTOLEPIS (CATOPRA).

373. KNER (1847). *Ueber die beiden Arten Cephalaspis lloydii und C. lewisii Agassiz, und einige diesen zunächst stehenden Schalenreste*. Naturwiss. Abh., I.

RUDOLF KNER.

Pteraspis Kner, I, 165; orthotype CEPHALASPIS LEWISI Ag. (fossil).

374. MEYER (1847). *Palæontographica*.

HERMANN VON MEYER.

Tylodus Meyer, I, 102; orthotype *T. GLABER* Meyer (fossil).

375. MEYER (1847). *Vorläufige Uebersicht der in dem Muschelkalk Oberschlesiens vorkommenden Saurier, Fische, Crustaceen und Echinodermen, nach der Sammlung des Herrn Mentzel in Königshütte*. Uebersicht Schles. Ges. Breslau.

HERMANN VON MEYER.

Omphalodus Meyer, 574; orthotype *O. CHORZOWENSIS* Meyer (fossil). A synonym of ASTERODON.

376. PLIENINGER (1847). *Microlestes antiquus und Sargodon tomicus in der Grenzenbreccie des Keupers von Degerloch*. Jahresschr. Ver. Vaterl. Naturk. Württemberg.

WILHELM HEINRICH THEODOR VON PLIENINGER.

Sargodon Plieninger, III, 165; orthotype *S. TOMICUS* Plieninger (fossil).

377. WOOD (1847). *Description of a Species of Shark (Leiodon echinatum)*.
Proc. Boston Nat. Hist. Soc., II.

WILLIAM WOOD.

Leiodon Wood, 174; orthotype *L. ECHINATUM* Wood. Name preoccupied; a synonym of SOMNIOSUS Le Sueur.

1848

378. AGASSIZ (1848). *Two New Fishes from Lake Superior, Percopsis and Rhinichthys*. Proc. Boston Soc. Nat. Hist., III.

LOUIS AGASSIZ.

Percopsis Agassiz, 80; haplotype PERCOPSIS GUTTATUS Ag. = SALMO OMISCOMAYCUS Walbaum (1792). Also in *Lake Superior*, 1850, 284.

Rhinichthys Agassiz, 80; haplotype CYPRINUS ATRONASUS Mitchill. Also in *Lake Superior*, 1850, 353.

* Alipey is probably the same as Alleppi or Allapalli, a seaport of Travancore in southern India, 33 miles south of Cochin.

379. BEYRICH (1848). *Ueber Xenacanthus decheni und Holacanthodes gracilis, zwei Fische aus der Formation des Rothliegenden in Nord-Deutschland.* Archiv. f. Mineral., XXII.

HEINRICH ERNST BEYRICH (1815-1896).

- Xenacanthus** Beyrich, 24; orthotype ORTHACANTHUS DECHENI Goldfuss (fossil). Regarded as a synonym of ORTHACANTHUS Ag. (PLEURACANTHUS).
Holacanthodes Beyrich, 24; orthotype H. GRACILIS Beyr. (fossil). A synonym of ACANTHOESSUS and of ACANTHODES.

380. BLEEKER (1848). *A Contribution to the Ichthyology of Sumbawa.* Journ. Ind. Arch. IX, 1848.

PIETER BLEEKER.

- Heterognathodon** Bleeker, I, 101; orthotype H. BIFASCIATUS Blkr., a substitute for HETERODON, preoccupied. A synonym of PENTAPUS Cuv. & Val.

381. CUVIER & VALENCIENNES (1848). *Histoire naturelle des poissons.* XXI.
 ACHILLE VALENCIENNES.

- Fario** Cuvier & Valenciennes, XXI, 277; tautotype SALMO FARIO L. = SALMO ARGENTEUS Val. Same as TRUTTA L., a subgenus of SALMO.

- Salar** Cuvier & Valenciennes, XXI, 314; type SALAR AUSONII Val., a form or ally of SALMO FARIO L. A synonym of FARIO Val. and TRUTTA L.

382. DANA (1848). *Fossils of the Exploring Expedition Under the Command of Charles Wilkes, U. S. N.; a Fossil Fish from Australia, and a Belemnite from Tierra del Fuego.* Amer. Journ. Sci., V.

JAMES DWIGHT DANA (1813-1895).

- Urosthene**s Dana, V, 433; orthotype U. AUSTRALIS Dana (fossil).

383. EWALD (1848). *Ueber Menaspis, eine neue fossile Fischgattung.* Ber. Akad. Wiss. Berlin.

AUGUST EWALD.

- Menaspis** Ewald, 83; orthotype M. ARMATA Ewald (fossil).

384. GIEBEL (1848). *Die Fische der Vorwelt in seiner Berücksichtigung der lebenden Fische.*

CHRISTOPH GOTTFRIED ANDREAS GIEBEL.

- Tharsis** Giebel, 145; orthotype T. GERMARI Giebel (fossil). A synonym of LEPTOLEPIS.

- Asima** Giebel, 184; orthotype A. JUGLERI Giebel (fossil). A synonym of RADAMAS Münster.

- Elonichthys** Giebel, 249; logotype E. GERMARI Giebel (fossil).

385. GISTEL (1848). *Naturgeschichte des Thierreichs für höhere Schulen.*

JOHANNES GISTEL.

A remarkable dull and confused publication, not hitherto noticed by ichthyologists. Gistel speaks feelingly of his "höchst mühsamer Vergleichung, zeiträubenden Nachschlagens, in vielen hundert Werken, etc., aus meinen Manuscripten aufzuführen". It is not often that so fatiguing a piece of work presents itself in such a crabbed form. Gistel insists that personal names of genera are allowable only in Botany and in the lowest classes of animals ("den niedrigsten Thierklassen").

The following may replace names actually preoccupied:

ABRON instead of PLATYSTOMA.

DAPALIS instead of SMERDIS.
 ENIXE instead of DREPANE.
 HYPODYTES instead of PARACENTROPOGON.
 NOTACMON instead of EURYNOTUS.
 ODONUS instead of XENODON (ERYTHRODON).
 PERIURGUS instead of MICROPS.
 PROSCINETES instead of MICRODON.
 SECUTOR instead of DEVEXIMENTUM.
 STREPHON instead of BRONTES.
 STROTES instead of PLATYSOMUS.

The following are also admissible if a name differing in gender or slightly in form but from the same roots as an earlier name is to be rejected as preoccupied:

ANALITHIS instead of PLATYRHINA.
 ALAZON instead of PÆCILIA.
 ENGLOTTOGASTER instead of OREINUS.
 FURO instead of EUGNATHUS.
 MYRMILLO instead of MUSTELUS.
 PRENES instead of SCATOPHAGUS.
 RHADAMISTA instead of CTENODUS.
 SCROPHA instead of CERATODUS.
 PEDITES instead of MACROPODUS.

The twice preoccupied name of UNDINA Gistel, IX, is offered as a substitute for LINKIA Nardo, said to be a fish, LINKIA TYPUS Nardo, preoccupied by LINCKIA Ag., a genus of ECHINODERMS, for which he offers the substitute name of CATANTES. But both LINKIAS are starfishes and neither a fish. Another generic name, PHYGAS Gistel, X, is proposed in place of POLIA (Della Chiaje, *Isis*, 1832, 647, SCIÆNA), said to be preoccupied in worms, by POLIA Grube, which genus Gistel renames CYRYX. But I am informed by Mr. Bean that POLIA SIPUNCULUS Della Chiaje is itself a worm also, not a fish.

Carcharias Gistel, VIII; type *SQUALUS ACANTHIAS* L.; substitute for *ACANTHIAS* Risso, regarded as preoccupied by *ACANTHIA*. *CARCHARIAS* was already twice preoccupied. A synonym of *SQUALUS* L., as restricted.

Pelonectes Gistel, VIII; type (*ACANTHOËSSUS BRONNI* Ag.). Substitute for *ACANTHODES* Ag. (1833), wrongly said to be preoccupied in crustacea (Serville, 1835). A synonym of *ACANTHOËSSUS* Ag. (1832).

Gremilla Gistel, VIII; type (*PERCA CERNUA* L.). A substitute for *ACERINA* Cuv.; but *CERNUA* Schäfer and *ACERINA* Güldenstädt, as well as *GYMNOCEPHALUS* Bloch & Schneider are still older than *GREMILLA*.

Adiapneustes Gistel, VIII; type (*ACRODUS GAILLARDOTI* Ag.). A substitute for *ACRODUS* Ag. (1838), wrongly regarded as preoccupied by *ACRODON* Zimmermann (1840).

Histiodromus Gistel, VIII; type (*SALMO ANOSTOMUS* L.). Name a substitute for *ANASTOMUS* Gronow, Scopoli, Cuvier. All these writers have priority over *ANASTOMUS* Illiger (1835), a genus of birds. The name has often been written *ANOSTOMUS*.

Nomalus Gistel, VIII; type *LONCHURUS ANCYLODON* Bl. & Schn. (*A JACULIDENS* Cuv. & Val.) Substitute for *ANCYLODON*, preoccupied. A synonym of *MACRODON* Schinz (1822).

Hypodytes Gistel, VIII; orthotype "ASPISTES Q. & G.", which is *APISTUS LONGISPINIS* Cuv. & Val. The name is a substitute for *APISTES* ("ASPISTES") regarded as preoccupied.

As the species of Quoy & Gaimard (1834) (*LONGISPINIS*) is the type of *PARACENTROPOGON* Blkr., *HYPODYTES* may supersede that name, rather than replace it by *PROSOPODASYS* Cantor (1849). Gistel offers *HYPODYTES* as a substitute for "ASPISTES Quoy, *Astrolabe Fische*," although *APISTES* occurs in the *Règne Animal*, 1829 (Index), and *APISTUS* in *Cuv. & Val.*, IV, also in 1829, in the latter part of the same year. As *HYPODYTES* is expressly used to replace *APISTUS* (not *ASPISTES*) of Quoy & Gaimard and as the chief species figured by those authors is *A. LONGISPINIS*, the type of the later genus *PARACENTROPOGON*, *HYPODYTES* may replace the latter, if *APISTES* or *APISTUS* is deemed occupied.

Scrofaria Gistel, VIII; orthotype *AUSONIA CUVIERI* Risso. Name an unexplained substitute for *AUSONIA*; a synonym of *LUVARUS* Raf.

Gliscus Gistel, VIII; type (*BLOCHIUS LONGIROSTRIS* Volta) (fossil). A substitute for *BLOCHIUS*, a personal name.

Strephon Gistel, VIII; orthotype (*BRONTES PRENADILLA* (Cuv. & Val.)). A substitute for *BRONTES* Cuv. & Val. several times preoccupied.

Thalassoklephtes Gistel, VIII; orthotype (*CANINOA CHIEREGHINI* Nardo). A substitute for *CANINOA* Nardo, as a genus unworthy of a prince: "Ist denn der Prinz von Canino mit einem HAYEN vergleichbar?"

Scrophia Gistel, VIII; type (*CERATODUS LATISSIMUS* Ag.) (fossil). A substitute for *CERATODUS*, regarded as preoccupied by *CERATODON* Brisson.

Capellaria Gistel, VIII; type (*LOPHIUS COMMERSONIANUS* Lac.). Substitute for *CHIRONECTES* Cuv., preoccupied. A synonym of *ANTENNARIUS* Cuv.

Cæso Gistel, VIII; type (*SPARUS BERDA* Forskål). A substitute for "CHRYSOPTERYX Rüppell" (*BERDA*). A synonym of *SPARUS* L. as understood by me.

Cerdo Gistel, VIII; type (*GADUS CALLARIAS* L.) as here restricted. *CERDO* is offered as a substitute for "ASELLUS Klein." But Klein does not accept *ASELLUS* as a generic name, but discusses its application to various cod-like fishes. He refers to "CERDONES" in a discussion of dried codfish. We may therefore regard *CERDO* Gistel as a synonym of *GADUS* L.

Echemythes Gistel, VIII; type (*ZEUS LUNA* Gmelin). A substitute for *CHRYSOPTERYX* Lac. A synonym of *LAMPRIS*.

Ronchifex Gistel, VIII; type (*HARPE RUFA* Lac.). substitute for *COSSYPHUS* Cuv., preoccupied; *BODIANUS* Bloch and *HARPE* Lac. are names still older for the same genus.

Rhadamista Gistel, VIII; type (*CTENODUS CRISTATUS* Ag. (fossil)). A substitute for *CTENODUS* Ag. (1838) regarded as preoccupied by *CTENODON* Wagner (1830).

Pirene Gistel, IX; type (*CHÆTODON ARUANUS* L.). Substitute for *DASCYLUS*; preoccupied as *DASCILLUS*; *PIRENE* is itself preoccupied and gives way to *TETRADRACHMUM* Cantor, 1849.

Enixe Gistel, IX; type *CHÆTODON PUNCTATUS* L.). A substitute for *DREPANE* Cuv., regarded as preoccupied by *DREPANE* or *DREPANA* Schranck. It has priority over *HARPOCHIRUS* Cantor (1849).

Secutor Gistel, IX; orthotype *SPARUS INSIDIATOR* (Bloch). A substitute for *EQUULA* Cuv., but with a different type. Has priority over *DEVEXIMENTUM* Fowler, if this subgenus is distinct from *LEIOGNATHUS* Lac.

- Furo** Gistel, IX; type (*EUGNATHUS ORTHOSTOMUS* Ag. fossil). Substitute for *EUGNATHUS* Ag. regarded as preoccupied by *EUGNATHA*, a genus of spiders.
- Notacmon** Gistel, IX; type (*EURYNOTUS CRENATUS* Ag. fossil). Substitute for *EURYNOTUS* Ag., preoccupied by a genus of beetles (Kirby, 1817).
- Podager** Gistel, IX; logotype *GERRES WAIGIENSIS* Q. & G. Name a substitute for *GERRES*, regarded as preoccupied by *GERRIS* Fabricius, a genus of insects. But *PODAGER* is itself preoccupied in birds, and if a new name is needed, it must give place to *CATOCHÆNUM* Cantor (1849). But the root words, *GERRIS* and *GERRES*, are different.
- Synergus** Gistel, IX; orthotype (*MEGALURUS LEPIDOTUS* Ag. fossil). A substitute for *MEGALURUS* Ag. preoccupied in mammals, but *SYNERGUS* is preoccupied also by *SYNERGUS* Hartig, 1840, a genus of Hymenoptera, and *MEGALURUS* may be replaced by *UROCLES* Jordan as already indicated.
- Ellops** Gistel, IX, type (*ACIPENSER HELOPS* Pallas). A substitute for *HELOPS*, ἑλλοψ being the original Greek form.
- Apeches** Gistel, IX; logotype *JOHNIUS*, *CARUTTA* Bl. & Schn. A substitute for *JOHNIUS*, a name regarded as objectionable. In general Gistel offers a substitute for all personal names everywhere except among plants and the lowest animals.
- Neanis** Gistel, IX; type (*LABRUS JULIS* L.). Name a substitute for *JULIS* Cuv., regarded as preoccupied by *JULUS* L., a genus of myriapods. But the two names are of entirely distinct origin.
- Exoles** Gistel, IX; type (*SQUALUS NASUS* Bonnaterre). A substitute for *LAMIA* Bon., itself a synonym of *LAMNA* Cuv.
- Apepton** Gistel, IX; orthotype *LEPADOGASTER PIGER* Nardo. A needless synonym of *GOUANIA* Nardo, a personal name.
- Anepistomon** Gistel, IX; type (*LEPTORHYNCHUS CAPENSIS* Smith). A substitute for *LEPTORHYNCHUS* Smith, preoccupied. A synonym of *OPHISURUS*, as restricted.
- Spanius** Gistel, IX; type (*LEPTOSOMA ATRA* Nardo). Name a substitute for *LEPTOSOMA*, preoccupied; probably a synonym of *MONOCHIRUS* Raf. "Soglio bastardo".
- Encrotes** Gistel, IX; type *CYPRINODON VARIEGATUS* Lac. A substitute for *LEBIA* or *LEBIAS* Cuv. on account of the name *LEBIA* Latreille, 1802, an earlier name wrongly attributed to Bonaparte. But *LEBIA* Cuv. (later written *LEBIAS*) is a synonym of *CYPRINODON* Lac.
- Maina** Gistel, IX; type (*SPARUS CHÆRORHYNCHUS* Bl. & Schn.). Name a substitute for *LETHRINUS* Cuv. unreasonably regarded as preoccupied by *LETHRUS* Fabricius, a genus of beetles.
- Massaria** Gistel, IX; type *CYCLOPTERUS LIPARIS* L. A needless substitute for *LIPARIS*, used in Botany.
- Pedites** Gistel, IX (*MACROPODUS VIRIDIAURATUS* Lac.). Name a substitute for *MACROPODUS* Lac. corrected by Günther as *MACROPUS*, in that form preoccupied by *MACROPUS* Thunberg, a genus of beetles. Perhaps to be adopted as the roots are the same and *MACROPODUS* an incorrect form.
- Paschalestes** Gistel, IX; type (*MACQUARIA AUSTRALASICA* Cuv. & Val. Substitute for *MACQUARIA* Cuv. & Val., rejected, as a personal name.
- Englottogaster** Gistel, IX; type *OREINUS GUTTATUS* McCl. Substitute for *OREINUS* McCl., regarded as preoccupied in beetles as *OREINA*. But the generic value of *OREINUS* is doubtful.

- Proscinetes** Gistel, X; type MICRODON ELEGANS Ag. (fossil). Substitute for MICRODON Ag., preoccupied; replaces POLYPSEPHIS Hay, 1899, which is also a substitute for MICRODON.
- Periergus** Gistel, X; type MICROPS FURCATUS Ag. (fossil). A substitute for MICROPS Ag., preoccupied in beetles.
- Arnion** Gistel, X; type (MUGIL CEPHALUS L.). A substitute for MUGIL L. for no assigned reason.
- Myrmillo** Gistel, X; orthotype MUSTELUS VULGARIS. A substitute for MUSTELUS Cuv., regarded as preoccupied by MUSTELA L. Same as PLEURACROMYLON Gill.
- Analithis** Gistel, X; orthotype PLATYRHINA SINENSIS (Bl. & Schn.). Substitute for PLATYRHINA M. & H., regarded as preoccupied by PLATYRHINUS, replaced by DISCOBATUS Garman (1881).
- Strotes** Gistel, X; type (STROMATEUS GIBBOSUS Blainv.). Name a substitute for PLATYSOMUS Ag. preoccupied by a genus of beetles.
- Abron** Gistel, X; orthotype SILURUS LIMA Ag. A substitute for PLATYSTOMA Ag., 1829, preoccupied in insects.
- Plectrostoma** Gistel, X; type OXYRHINA MANTELLI Ag. (fossil). Substitute for OXYRHINA Ag., preoccupied. A synonym of ISURUS Raf.
- Euporista** Gistel, X; type PLEURONECTES PLAGIUSA L. A substitute for PLAGUSIA Bon., preoccupied; a synonym of SYMPHURUS Raf.
- Deportator** Gistel, X; type (SILURUS ANGUILLARIS Forskål). Name a substitute for PLOTOSUS Lac., needlessly regarded as preoccupied by PLOTUS L.
- Alazon** Gistel, X; orthotype (PÆCILIA VIVIPARA). A substitute for PÆCILIA Cuv. & Val., regarded as preoccupied by PÆCILUS Bon., a beetle.
- Apodometes** Gistel, X; type (PSAMMODUS RUGOSUS Ag., fossil). A substitute for PSAMMODUS Ag. regarded as preoccupied by PSAMMODIUS, a genus of beetles, but the words are not from the same roots.
- Demiurga** Gistel, X; type (RHINA ANCYLOSTOMA Bl. & Schn.). A substitute for RHINA Bon., etc., regarded as preoccupied by RHINA Olivier (1807), a genus of beetles. But this genus of rays was called RHINA in 1801, by Bloch & Schneider. The same name was used by non-Linnæan writers in place of SQUATINA. For this purpose it was first binomially used in 1810. If RHINA is used for SQUATINA, DEMIURGA could replace it for this genus, instead of RHAMPHOBATIS Gill (1861).
- Prenes** Gistel, X; type (CHÆTODON ARGUS Bloch). Name a substitute for SCATOPHAGUS Cuv., regarded as preoccupied by SCATOPHAGA. Has priority over CACODOXUS Cantor, 1849.
- Agoreion** Gistel, X; type ACANTHODERMA SPINOSUM Ag. (fossil). Name a substitute for "SCLERODERMA Ag.", used in fungi, also as SCLERODERMUS in bees, but I find no SCLERODERMA in Agassiz. It was probably the preoccupied name, ACANTHODERMA Ag., which Gistel had in mind; for this AGOREION may perhaps be substituted.
- Creotroctes** Gistel, X; type SCOMBER SARDA L. Name an unexplained substitute for SARDA Cuv. It is a synonym of PALAMITA Bon., offered in 1832 as a substitute for PELAMYS Cuv. & Val., 1831, which is the same as SARDA Cuv., 1829.
- Denius** Gistel, X; type (SPARUS SARGUS L.). Name a substitute for SARGUS Cuv., preoccupied. A synonym of DIPLODUS Raf.
- Borborodes** Gistel, X; type (SQUALUS LICHIA Cuv., SQUALUS LICHIA Bonnaterre). Substitute for SCYMNUS Cuv., preoccupied in beetles. A synonym of SCYMNORHINUS Bon., 1846.

- Dapalis** Gistel, XI; type (*PERCA MINUTA* Blainv.) (fossil). Name a substitute for *SMERDIS* Ag., 1833, preoccupied by *SMERDIS* Leach, a genus of beetles.
- Peroptera** Gistel, XI; said to be a fish and substituted for *PERIOPTERA* Gistel, "deleatur". I find no reference elsewhere to either name.
- Orthocolus** Gistel XI; type *SALMO THYMALLUS* L. Substitute for *THYMALLUS* Cuv., regarded as preoccupied by *THYMALLUS* Latr., 1803, a genus of beetles. But the root word is different. In any event, *CHOREGON* Minding has priority.
- Trompe** Gistel, XI, 109; type (*SCIÆNA JACULATRIX* Pallas). Name an unexplained substitute for *TOXOTES* Cuv.
- Aphobus** Gistel, XI; type (*TRACHIDERMIS FASCIATUS* Heckel). Name a substitute for *TRACHIDERMIS* Heckel preoccupied as *TRACHYDERMA*, etc., a synonym of *CENTRIDERMICHTHYS* Rich., 1844.
- Chætichthys** Gistel, XI; type (*TRACHINUS TRICHODON* Steller). Name a substitute for *TRICHODON* Cuv., deemed preoccupied by *TRICHODA* and *TRICHODES*, but the root meaning is different.
- Lithulcus** Gistel, XI; type (*TRICHOPODUS MENTUM* Lac.). Substitute for *TRICHOPODUS* (*TRICHOPUS*) (Lac.) Cuv. & Val.; used also in botany. The oldest use of the name in Zoology is that of Lacépède, 1802 (III, 125), a genus of fishes already called (116) *OSPHRONEMUS* by the same author.
- Odonus** Gistel, XI; type (*BALISTES NIGER* Lac.). A substitute for *XENODON* Rüppell, preoccupied. *ODONUS* is prior to *ERYTHRODON* Rüppell, 1852, and to *PYRODON* Kaup. If *ZENODON* Sw. (1839) is regarded as eligible, not as a mere misprint, it will be preferred to *ODONUS*.
- Eudynama** Gistel, XIII, 108; orthotype (*SPARUS AURATA* L.). A substitute for *CHRY SOPH RYS* Cuv. A synonym of *SPARUS* L. as restricted.
- Eupnœa** Gistel, 105; orthotype *PLAGIUSA LACTEA* Bon. (*SYMPHURUS NIGRESCENS* Raf.). A synonym of *SYMPHURUS* Raf.
- Melantha** Gistel, 109; orthotype *SCIÆNA NIGRA* Gmelin, "die Seekrähe". A needless synonym of *CORVINA* Cuv.
- Attilus** Gistel, 109; orthotype *SCIÆNA (CIRRHOSA)* L., "der Schattenfisch". A needless synonym of *UMBRINA* Cuv.
386. GUICHENOT (1848). *Notice sur l'établissement d'un nouveau genre de Chétodons (Megaprotodon)*. Rev. Zool., XI.
ALPHONSE GUICHENOT.
- Megaprotodon** Guichenot 12; orthotype *CHÆTODON BIFASCIALIS* Cuv. & Val.
387. GUICHENOT (1848). *Peces de Chile*. (In Claudio Gay: *Historia física y política de Chile*.)
ALPHONSE GUICHENOT.
- Boxaodon** (Guichenot) Gay, II, 208; orthotype *B. CYANESCENS* Guich. An ally of *EMMELICHTHYS* Rich.
- Mendosoma** (Guichenot) Gay, II, 212; logotype *M. LINEATUM* Guich.
- Seriolella** (Guichenot) Gay, II, 238; orthotype *S. POROSA* Guich.
- Merlus** (Guichenot) Gay, II, 238; orthotype *M. GAYI* Guich. Apparently a variant of *MERLUCCIUS*, of which it is a synonym.
388. HECKEL (1848). *Eine neue Gattung von Pæcilien mit rochenartigem Anklammerungs-Organen (Xiphophorus)*. Sitzb. Akad. Wiss. Wein.
JOHANN JAKOB HECKEL.
- Xiphophorus** Heckel, I, 163; orthotype *X. HELLERI* Heckel.

389. JERDON (1848). *On the Fresh-water Fishes of Southern India*. Madras Journ. Lit. Sci., XV.

THOMAS CLAVERHILL JERDON (1811-1873).

Pristolepis Jerdon, XV, 141; orthotype *P. MARGINATUS* Jerdon. Replaces *CATOPRA* Blkr.

390. M'COY (1848). *On Some New Fossil Fish of the Carboniferous Period*. Ann. Mag. Nat. Hist., II.

FREDERICK M'COY.

Isodus M'Coy, 3; orthotype *I. LEPTOGNATHUS* M'Coy (fossil).

Colonodus M'Coy, II, 5; orthotype *C. LONGIDENS* M'Coy (fossil).

Osteoplax M'Coy, II, 6; orthotype *O. EROSA* M'Coy (fossil).

- 391 M'COY (1848). *On Some New Ichthyolites from the Scotch Old Red Sandstone*. Ann. Mag. Nat. Hist., II.

FREDERICK M'COY.

Physonemus M'Coy, II, 117; orthotype *P. ARCUATUS* M'Coy (fossil).

Erismacanthus M'Coy, II, 118; orthotype *E. JONESI* M'Coy (fossil).

Asteroptychius (Agassiz) M'Coy, II, 118; orthotype *A. ORNATUS* (Ag.) M'Coy (fossil). Name only, in *Poissons fossiles*, III, 176, 1843; made valid by M'Coy, 1848.

Platyacanthus M'Coy, II, 120; orthotype *P. ISOSCELES* M'Coy (fossil). Name preoccupied. A synonym of *ORACANTHUS* Ag.

Polyrhizodus M'Coy, II, 125; orthotype *P. MAGNUS* M'Coy (fossil).

Glossodus M'Coy, II, 127; logotype *G. LINGUA-BOVIS* M'Coy (fossil). Not *GLOSSODON* Raf.

Climaxodus M'Coy, II, 128; orthotype *C. IMBRICATUS* M'Coy (fossil). A synonym of *JANASSA*.

Cheirodus M'Coy, II, 130; orthotype *C. PES-RANÆ* M'Coy (fossil).

Petrodus M'Coy, II, 132; logotype *P. PATELLIFORMIS* M'Coy (fossil).

Tripterus M'Coy, II, 306; orthotype *T. POLLEXFENI* M'Coy (fossil). A synonym of *OSTEOLEPIS* Val. Name preoccupied; replaced by *TRIPLOPTERUS* M'Coy (1855).

Gyroptychius M'Coy, II, 307; orthotype *G. ANGUSTUS* M'Coy (fossil).

Conchodus M'Coy, II, 312; orthotype *C. OSTREÆFORMIS* M'Coy (fossil).

392. MÜLLER (1848). (*Fossile Fische*.) *Reise in den äussersten Norden und Osten Sibiriens während der Jahr 1843-44*. Herausgegeben von A. Th. v. Middendorf, I.

JOHANNES MÜLLER.

Lycoptera Müller, I, 262; orthotype *L. MIDDENDORFI* Müller (fossil).

393. MÜLLER & TROSCHER (1848). *Reisen in British-Guiana in den Jahren 1840-44*. (Im Auftrag Sr. Majestät des Königs von Preussen ausgeführt von Richard Schomburgk: *Versuch einer Fauna und Flora von British-Guiana*. (*Fische*.) III.)

JOHANNES MÜLLER; FRANZ HERMANN TROSCHER.

Acharnes Müller & Troschel, III, 622; orthotype *A. SPECIOSA* M. & T.

Polycentrus Müller & Troschel, III, 622; orthotype *P. SCHOMBURGKI* M. & T.

394. RICHARDSON (1848). *Fishes: The Zoology of the Voyage of H.M.S. "Samarang"; Under the Command of Captain Sir Edward Belcher, During the years 1843-1846*.

JOHN RICHARDSON.

Choridactylus Richardson, 8; orthotype *C. MULTIBARBIS* Rich. Later spelled *CHORISMODACTYLUS*.

Sthenopus Richardson, 10; orthotype *S. MOLLIS* Rich. Name preoccupied; replaced by *TRICHOPLEURA* Kaup.

Podabrus Richardson, 11; logotype *P. CENTROPOMUS* Rich. Preoccupied in beetles; replaced by *VELLITOR* Jordan & Starks (1894).

Nemichthys Richardson, 25; orthotype *N. SCOLOPACEUS* Rich.

Aperioptus Richardson, 27; orthotype *A. PICTORIUS* Rich.

1849

395. AYRES (1849). *On a Very Curious Fish, for which the Name Malacosteus niger Is Proposed.* Journ. Bost. Soc. Nat. Hist.

WILLIAM O. AYRES.

Malacosteus Ayres, 53; orthotype *M. NIGER* Ayres.

396. BLEEKER (1849). *A Contribution to the Knowledge of the Ichthyological Fauna of Celebes.* Journ. Ind. Arch., III.

PIETER BLEEKER.

Apogonoides Bleeker, III, 70; orthotype *A. MACASSARIENSIS* Blkr. This forgotten genus is based on a species without teeth on the plate; with the preopercle entire, no opercular spines: D .VI-1, 9; caudal bilobed. *APOGONOIDES* seems to differ from the later *APOGONICHTHYS* only in the presence of 6, not 7, dorsal spines and in the bilobed caudal.

Amblygaster Bleeker, 70; orthotype *A. CLUPEOIDES* Blkr. A synonym of *SARDINELLA* Cuv. & Val. The true sardines (*SARDINIA* Poey) are well distinguished from *SARDINELLA* externally by the strong concentric grooves on the opercles.

Dipterygonotus Bleeker, 70; orthotype *D. LEUCOGRAMMICUS* Blkr. An ally or synonym of *EMMELICHTHYS* Rich.

Pogonognathus Bleeker, III, 73; orthotype *P. BARBATUS* Blkr. = *ANACANTHUS BARBATUS* Gray. A synonym of *PSILOCEPHALUS* Sw.

397. BLEEKER (1849). *Overzicht der te Batavia voorkomende Gladschubbige Labroïden, met beschrijving van 11 nieuwe soorten.* Verh. Bat. Gen. XXII, 1849, 1-64.

PIETER BLEEKER.

Scarus (Forskål) Bleeker XII, 3; orthotype *LABRUS CRETENSIS* L. (not *SCARUS* Forskål). A synonym of *SPARISOMA* Sw.

398. BLEEKER (1849). *Bijdrage tot de kennis der Percoïden van den Malayo-Molukschen Archipel, met beschrijving van 22 nieuwen soorten.* Verh. Batav. Genootsch., XXII.

PIETER BLEEKER.

Mulloid Bleeker, 12; orthotype *MULLUS FLAVOLINEATUS* Lac.

Upeneoides Bleeker, 63; orthotype *MULLUS VITTATUS* Forskål

399. BLEEKER (1849). *Bijdrage tot de kennis der Blennioïden en Gobioiden van den Soenda-Molukschen Archipel, met beschrijving van 42 nieuwe soorten.* Verh. Batav. Genootsch., XX.

PIETER BLEEKER.

Philypnoides Bleeker, XXIII, 19; orthotype *P. SURAKARTENSIS* Blkr. (Young of *OPHICEPHALUS GACHUA* Ham.) A synonym of *OPHICEPHALUS* Bloch.

400. BLEEKER (1849). *Bijdrage tot de kennis der ichthyologische fauna van het eiland Madura, met beschrijving van eenige nieuwe species*. Verh. Batav. Genootsch., XXII.

PIETER BLEEKER.

Leptonurus Bleeker, XXII, 14; orthotype *L. CHRYSOSTIGMA* Blkr. A synonym of *COILIA* Gray.

Hippichthys Bleeker, XXII, 15; orthotype *H. HEPTAGONUS* Blkr. (not *HIPPOCAMPUS HEPTAGONUS* Raf.). Probably the same as *CORYTHOICHTHYS* Kaup and of earlier date.

Anodontostoma Bleeker, XXI, 15; orthotype *A. HASSELTII* Blkr. = *CHATOËSSUS CHACUNDA* Cuv. & Val.; replaces *GONOSTOMA* Van Hasselt, 1823, preoccupied.

401. BLEEKER (1849). *Bijdrage tot de kennis der ichthyologische fauna van het eiland Bali, met beschrijving van eenige nieuwe species*. Verh. Batav. Genootsch., XXII.

PIETER BLEEKER.

Stomianodon Bleeker, XXII, 10; orthotype *S. CHRYSOPHEKADION* Blkr. A synonym of *ASTRONESTHES* Rich.

402. CANTOR (1849). *Catalogue of Malayan Fishes*. Journ. Roy. Asiat. Soc. Bengal, XVIII (1849). Reprinted as a separate volume, 1850.

THEODORE EDWARD CANTOR.

Genyoroge Cantor, 12; loogtype *DIACOPE SEBÆ*. Name a substitute for *DIACOPE* Cuv. & Val., preoccupied.

Prosopodasys Cantor, 44; orthotype *APISTUS ALATUS* Cuv. A substitute for *APISTUS* Cuv., regarded as preoccupied by *APISTA*, hence must retain the same type. *PTERICHTHYS* Sw., 1839, has priority over *PROSOPADASYS*.

Corythobatus Cantor, 45; orthotype *APISTUS MINOUS* Cuv. & Val. = *MINOUS MOORA* Cuv. & Val. Substitute for *MINOUS*, regarded as preoccupied by *MINOËS*.

Spondyliosoma Cantor, 50; orthotype *SPARUS CANTHARUS* L. Substitute for *CANTHARUS* Cuv., preoccupied.

Catochænum Cantor, 55; orthotype *GERRES WAIGENSIS* Cuv. & Val. Substitute for *GERRES*, unnecessarily regarded as preoccupied by *GERRIS*, a genus of insects. *PODAGER* Gistel (1848), also a substitute for *GERRES*, is preoccupied. I think that *GERRES* should hold.

Ilarches Cantor, 100; orthotype *CHÆTODON ORBIS* Bloch. Substitute for *EPHIPPIUS* Cuv., regarded as preoccupied by *EPHIPPIUM*.

Diphreutes Cantor, 159; orthotype *CHÆTODON MACROLEPIDOTUS* L., replacing *HENIOCHUS* Cuv. (1817), regarded as preoccupied by *HENIOCHE*, 1816.

Harpochirus Cantor, 162; orthotype *CHÆTODON PUNCTATUS* Gmelin. Same as *ENIXE* Gistel, 1848, an earlier substitute for *DREPANE* Cuv., regarded as preoccupied by *DREPANA*, *DREPANIA*, *DREPANIS* and *DREPANIUS*.

Cacodoxus Cantor, 163; orthotype *CHÆTODON ARGUS* Gmelin. Same as *PRENES* Gistel, 1848. Substitute for *SCATOPHAGUS* Cuv. & Val. regarded as preoccupied by *SCATOPHAGA*.

Cannorhynchus Cantor, 211; orthotype *FISTULARIA TABACARIA* L. A synonym of *FISTULARIA*.

Synaptura Cantor, 222; logotype *PLEURONECTES COMMERSONIANUS* Lac., as restricted by Bleeker.

Tetradrachmum Cantor, 240; logotype *CHÆTODON ARUANUS* L. Same as *PIRENE* Gistel (1848). A substitute for *DASYLLUS* Cuv., regarded as preoccupied by *DASCILLUS* and often spelled *DASCILLUS*.

Prionace Cantor, 399; logotype *SQUALUS GLAUCUS* L. Substitute for *PRIONODON* M. & H., preoccupied.

Rhachinotus Cantor, 422; orthotype *RAJA AFRICANA* Bl. & Schn. A substitute for *ANACANTHUS* Ehrenb., 1837, preoccupied. A synonym of *UROGYMNUS* M. & H.

Stoasodon Cantor, 434; orthotype *RAJA NARINARI* Euphrasen. Substitute for *AËTOBATIS* as restricted by Müller & Henle, the proper type of *AËTOBATIS* Blainv. being regarded by tautonymy as *RAJA AQUILA* L.

403. CUVIER & VALENCIENNES (1849). *Histoire naturelle des poissons*. XXII.
ACHILLE VALENCIENNES.

Parodon Cuvier & Valenciennes, XXII, 50; haplotype *PARODON SUBORBITALE* Val.

Brycinus Cuvier & Valenciennes, XXII, 157; haplotype *BRYCINUS MACROLEPIDOTUS* Val.

Piabucina Cuvier & Valenciennes, XXII, 161; haplotype *PIABUCIANA ERYTHRINOIDES* Val.

Distichodus Cuvier & Valenciennes, XXI, 172; haplotype *SALMO NEFASCH* Lac. = *SALMO NILOTICUS* Hasselquist.

Tometes Cuvier & Valenciennes, XXII, 225; logotype *TOMETES TRILOBATUS* Val.
A synonym of *MYLEUS* M. & T.

Mylesinus Cuvier & Valenciennes, XXII, 234; haplotype *MYLESINUS SCHOMBURGI* Val.

Chalcinus Cuvier & Valenciennes, XXII, 258; logotype *CHALCINUS BRACHYPOMUS* Val.

Cynopotamus Cuvier & Valenciennes, XXII, 317; logotype *HYDROCYON ARGENTEUS* Val.

Saurida Cuvier & Valenciennes, XXII, 499; logotype *SALMO TUMBIL* Bloch.

Farionella Cuvier & Valenciennes, XXII, 507; haplotype *FARIONELLA GAYI* Val. A synonym of *APLOCHITON* Jenyns (1842).

404. GERMAR (1849). *Steinkohle Wittenbergs*.

ERNST FRIEDRICH GERMAR (1786-1853).

Styracodus Germar, 70; orthotype *CENTRODUS ACUTUS* Giebel (fossil). A synonym of *CENTRODUS*.

405, 406. GIEBEL (1849). *Fauna der Vorwelt*.

CHRISTIAN GOTTFRIED ANDREAS GIEBEL.

Asima Giebel, 184; orthotype *RADAMAS JUGLERI* Münster. A synonym of *RADAMAS*.

407. HECKEL (1849). *Abhandlung über eine neue fossile Fischgattung, Chirocentrites, und die ersten Ueberreste eines Siluroiden aus der Vorwelt*. Sitzb. Akad. Wiss. Wien, II.

JOHANN JAKOB HECKEL.

Chirocentrites Heckel, I, 18; logotype *C. MICRODON* Heckel (fossil). A synonym of *THRISSOPS*.

408. HECKEL (1849). *Ichthyologie (von Syrien)*. In Russegger, Joseph von, *Reisen in Europa, Asien und Africa, mit besonderer Rücksicht auf die naturwissenschaftlichen Verhältnisse der betreffenden Länder unternommen in den Jahren 1835 bis 1841*, etc. II, part 3. (To this part Dean assigns the date 1843.)

Isodus Heckel, II, 342; orthotype *I. SULCATUS* Heckel (fossil). A synonym of *ENCHODUS* Ag.

Pycnosterina Heckel, II, 337; orthotype *P. RUSSEGGERI* Heckel (fossil).

409. HOEVEN, VAN DER (1849). *Handboek der dierkunde; tweede verbeterde uitgave; met bijvoegsels en aanmerkingen door Leuckart*. Amsterdam.

JANUS VAN DER HOEVEN (1802-1868).

Pteronemus Van der Hoeven, II, 177; orthotype *CHEILODACTYLUS FASCIATUS* Lac. A synonym of *CHEILODACTYLUS*.

Sphyra Van der Hoeven, II; type *SQUALUS ZYGÆNA* L. Emendation of *SPHYRNA* Raf.

410. JORDAN (1849). (*Triodus*.) *Neues Jahrb. von Mineralogie*.

AUGUST JORDAN.

Triodus Jordan, 843; orthotype *T. SESSILIS* Jordan = *PLEURACANTHUS DECHENI* (fossil). A synonym of *ORTHACANTHUS* (*PLEURACANTHUS*).

411. M'COY (1849). *On Some New Fossil Fish of the Carboniferous Period*. *Ann. Mag. Nat. Hist.*, ser. II.

FREDERICK M'COY.

Centrodus M'Coy, II, 3; orthotype *C. STRIATULUS* M'Coy (fossil). Same as *MEGALICHTHYS* Ag., 1844, not of 1838.

412. MEYER (1849). *Fische, etc., aus dem Muschelkalk Ober-Schlesiens*.

Palæontographica, I.

HERRMANN VON MEYER.

Palæobates Meyer, I, 234; orthotype *PSAMMODUS ANGUSTISSIMUS* Ag. (fossil).

413. MÜLLER & TROSCHEL (1849). *Horæ Zoologicæ. Beschreibung und Abbildung neuer Fische*. III.

JOHANNES MÜLLER; FRANZ HERMANN TROSCHEL.

Sciades Müller & Troschel, III, 6; logotype *SCIADES PICTUS* M. & T.

Eutropius Müller & Troschel, III, 6; logotype *HYPOPTHALMUS NILOTICUS* Rüppell.

Citharinus Müller & Troschel, III, 8; tautotype *SERRASALMO CITHARINUS* Cuv. = *SALMO UNIMACULATUS* Bloch.

Hemiodus Müller & Troschel, III, 9; logotype *ANODUS CRENIDENS* M. & T. = *SALMO UNIMACULATUS* Bloch.

Ariodes Müller & Troschel, III, 9; logotype *ARIODES ARENARIUS* M. & T.

Erethistes Müller & Troschel, III, 12; orthotype *E. PUSILLUS* M. & T.

Carapus (Cuvier) Müller & Troschel, III, 13; logotype, restricted by Eigenmann, to *FASCIATUS* Pallas = *GYMNOTUS CARAPO* L. (*CARAPUS* Cuv., but not of Rafinesque). A synonym of *GYMNOTUS* L.

Sternopygus Müller & Troschel, III, 13; orthotype *GYMNOTUS MACRURUS* Bl. & Schn.

Rhamphichthys Müller & Troschel, III, 15; orthotype *GYMNOTUS ROSTRATUS* L.

Cnidon Müller & Troschel, III, 21; orthotype *C. CHINENSIS* M. & T. = *LABRAX WAIGIENSIS* Cuv. & Val. A synonym of *PSAMMOPERCA* Rich.

Cichlops Müller & Troschel, III, 24; orthotype *C. MICROPTHALMUS* M. & T. Name preoccupied; replaced by *DAMPIERIA* Castelnau, 1875, or by *LABRACINUS* Schlegel, 1875.

Caprophonus Müller & Troschel, III, 28; orthotype *C. AURORA* M. & T. = *ANTI-GONIA CAPROS* Lowe. A synonym of *ANTIGONIA* Lowe.

413A. NEWMAN (1849). (*Devil Fish.*) The Zoologist.

EDWARD NEWMAN.

Brachioptilon Newman, 74; orthotype *B. HAMILTONI* Newman. A synonym of *MANTA* Bancroft.

414. REID (1849). *An Account of a Specimen of the Vaagmær . . . Thrown Ashore in the Firth of Forth.* Ann. Mag. Nat. Hist., III.

JOHN REID.

Vogmarus Reid, III, 456; orthotype *BOGMARUS ISLANDICUS* Bl. & Schn. A substitute for *BOGMARUS*, both names synonyms of *TRACHIPTERUS* Gouan.

415. REINHARDT (1849). *Nye sydamerikanske ferskvandsfiske.* Vidensk. Meddel-Naturh. Foren. Kjöbenhavn.

JOHANN THEODOR REINHARDT (1816-1882).

Hydropardus Reinhardt, 46; orthotype *H. RAPAX* Reinh. = *RAPHIODON VULPINUS* Ag. A synonym of *RAPHIODON*.

416. SISMONDA (1849). *Descrizione dei pesci e dei crustacei fossili nel Piemonte,* Mem. Reale Accad. Sci. Torino, ser. X.

EUGENIO SISMONDA.

Trigonodon Sismonda, 25; orthotype *T. OWENI* Sismonda (fossil).

417. SMITH (1849). *Illustrations from the Zoology of South Africa; Consisting Chiefly of Figures and Descriptions of Objects of Natural History Collected During an Expedition into the Interior of South Africa in 1834-36.*

ANDREW SMITH.

Leptorhynchus Smith, pl. 6; orthotype *L. CAPENSIS* Smith. A synonym of *OPHI-SURUS* Lac., as restricted.

Cheilobarbus Smith, pl. 10; logotype *BARBUS CAPENSIS* Smith.

Pseudobarbus Smith, pl. 11; orthotype *BARBUS BURCHELLI* Smith.

Abrostomus Smith, pl. 12; logotype *A. UMBRATUS* Smith.

Tilapia Smith; orthotype *CHROMIS NILOTICA* Cuv. & Val. Replaces *CHROMIS* Gthr., not of Cuvier.

Atimostoma Smith, XXIV; orthotype *A. CAPENSE* Smith. A synonym of *PSENES* Cuv. & Val.

Rhineodon Smith, pl. 26; orthotype *R. TYPICUS* Smith. Misprinted *RHINCODON*; often written *RHINODON*.

Xiphiurus Smith; orthotype *X. CAPENSIS* Smith. Name preoccupied as *XIPHIURA*, a synonym of *GENYPTERUS* Philippi.

418. THIOLLIÈRE (1849). *Un nouveau gisement de poissons fossiles dans le Jura du département de l'Ain.* Ann. Soc. Agric. Lyons, I.

VICTOR JOSEPH DE L'ISLE THIOLLIÈRE (1801-1859).

Spathobatis Thiollière, I, 63; orthotype *S. BUGESIACUS* Thiollière (fossil). A synonym of *AELLOPOS* Münster.

419. WILLIAMSON (1849). *On the Microscopic Structure of the Scales and Dermal Teeth of Some Ganoid and Placoid Fishes.* Phil. Trans. Roy. Soc. London.

WILLIAM CRAWFORD WILLIAMSON.

Pholidotus Williamson, 444; orthotype *P. LEACHI* Williamson (fossil). A synonym of *DAPEDIUM* Leach.

1850

420. AGASSIZ (1850). *Lake Superior: Its Physical Character, Vegetation, and Animals, Compared with Those of Other and Similar Regions, etc.*

LOUIS AGASSIZ.

Pæcilosoma Agassiz, 299; haplotype *ETHEOSTOMA VARIATEUM* Kirtland. Preoccupied; replaced by *PÆCILICHTHYS* Ag., 1854.

Argyrosomus Agassiz, 339; haplotype *SALMO CLUPIFORMIS* Ag., not of Mitchill = *SALMO HARENGUS* Rich. Name preoccupied (Pylaie, 1834); replaced by *THRISOMIMUS* Gill (1909). A subgenus under *LEUCICHTHYS* Dybowski.

Hypsoplepis (Baird) Agassiz, 368; orthotype *CYPRINUS CORNUTUS* Mitchill. Written *HYPSILEPIS* by Cope.

421. BLEEKER (1850). *Bijdrage tot de kennis der Mænoiden van den Sænda-Molukschen Archipel*. Verh. Batav. Genootsch., XXIII.

PIETER BLEEKER.

Pentaprion Bleeker, I, 104; orthotype *P. GERREOIDES* Blkr.

422. BLEEKER (1850). *Bijdrage tot de kennis der visschen met doolhofvormige kieuwen van den Sænda-Molukschen Archipel*. Verh. Batav. Genootsch., XXIII, 1850.

PIETER BLEEKER.

Betta Bleeker, XXIII, 12; orthotype *B. TRIFASCIATA* Blkr.

423. COSTA (1850). (*Fossil Fishes: Ittioliti.*) Atti Accad. Pontan, V.

ORONZIO GABRIELE COSTA.

Sarginites Costa, V, 285; orthotype, *S. PYGMÆUS* Costa (fossil). A synonym of *LEPTOLEPIS*.

Histiurus Costa, V, 288; orthotype *H. ELATUS* Costa. Preoccupied as *ISTIURUS* Cuv., 1829, emended as *HISTIURUS* Ag.; replaced by *KNIGHTIA* Jordan, 1907; type *K. EOCÆNA* Jordan.

Rhynchoncodes Costa, V, 317; orthotype *R. SCACCHI* Costa (fossil). A synonym of *PROPTERUS* Ag.

Blenniomæus Costa, V, 319; orthotype *B. LONGICAUDA* Costa (fossil). A synonym of *NOTAGOGUS* Ag.

Sauropsidium Costa, V, 322; orthotype *S. LÆVISSIMUM* Costa.

Megalurites Costa, V, 370; orthotype *DIODON SCILLÆ* Ag. (fossil). A synonym or fossil ally of *DIODON*.

424. DIXON (1850). *The Geology and Fossils of the Tertiary and Cretaceous Formations of Sussex*.

A. FRANCIS DIXON.

Platylæmus Dixon, 205; orthotype *P. COLEI* Dixon (fossil).

Aulodus Dixon, 366; orthotype *A. AGASSIZI* Dixon (fossil). A synonym of *PTYCHODUS* Ag.

Plethodus Dixon, 366; logotype *P. EXPANSUS* Dixon (fossil). (Not *PLETHODON* Tschudi, a genus of lizards.)

Pomognathus Dixon, 367; orthotype *P. EURYPTERYGIUS* Dixon (fossil). A synonym of *HALEC* Ag.

Prionolepis (Egerton) Dixon, 368; orthotype *P. ANGUSTUS* Egert. (fossil).

Homonotus Dixon, 372; orthotype *B. ELEGANS* Dixon (fossil).

Berycopsis Dixon, 372; orthotype *B. ELEGANS* Dixon (fossil).

Stenostoma Dixon, 373; orthotype *S. PULCHELLA* Dixon (fossil).

Pachyrhizodus (Agassiz) Dixon, 374; orthotype *P. BASALIS* Dixon (fossil).

Tomognathus Dixon, 376; logotype *P. MORDAX* Dixon (fossil).

425. EGERTON (1850). *Palichthyologic Notes, Supplemental to the Work of Prof. Agassiz on the Ganoidei heterocerci*. Quart. Journ. Geol. Soc. Lond.

PHILIP DE MALPA GREY EGERTON.

Plectrolepis (Agassiz) Egerton, VI, 4; orthotype *P. RUGOSUS* (Ag.) Egert. (fossil).
A synonym of *EURYNOTUS* Ag. = *NOTACMON* Gistel.

426. FISCHER VON WALDHEIM (1850). *Sur un poisson fossile de la Grèce (Platacanthus)*. Bull. Soc. Imp. Nat. Moscou., XXIII.

GOTTHELF FISCHER VON WALDHEIM (1771-1853).

Platacanthus Fischer von Waldheim, XXIII, 286; orthotype *P. UBINOI* Waldheim (fossil). An extinct ally of *DICENTRARCHUS* Gill = *LABRAX* Cuv., not Pallas.

427. FISCHER VON WALDHEIM (1850). *Ommatolampes et Trachelacanthus. genera piscium fossilium nova, in literis Eduardo ab Eichwald datis, descripta*. Mosquæ.

GOTTHELF FISCHER VON WALDHEIM.

Ommatolampes Fischer von Waldheim, 4; orthotype *O. EICHWALDI* Fischer.

Trachelacanthus Fischer von Waldheim, 9; orthotype *T. STSCHUROVSKII* Waldheim (fossil).

428. GIBBES (1850). *Mososaurus and Allied Genera*. Smithsonian Contr. Knowledge, II.

ROBERT WILSON GIBBES (1809-1866).

Conosaurus Gibbes, 10; orthotype *C. BOWMANI* Gibbes. Name regarded as pre-occupied by *CONIOSAURUS*; replaced by *CONOSAUROPS* Leidy (1868).

429. GUICHENOT (1850). *Exploration scientifique de l'Algérie*. Paris.

ALPHONSE GUICHENOT.

Gadiculus Guichenot, 101; orthotype *G. ARGENTEUS* Guich.

430. HECKEL (1850). *Beiträge zur Kenntniss der fossilen Fische Oesterreichs*. Denkschr. Akad. Wiss. Wien, I.

JOHANN JAKOB HECKEL.

Saurorhamphus Heckel I, 217; orthotype *S. FREYERI* Heckel (fossil).

Lepidopides Heckel, I, 239; *LEPIDOPUS LEPTOSPONDYLUS* Heckel (fossil). A synonym of *ANENCHELUM* Blainv. and probably of the living genus *LEPIDOPUS*.

431. JERDON (1850). (*Pristolepis*.) Madras Journ. Lit. Sci., XVI.

THOMAS CLAVERHILL JERDON.

Pristolepis Jerdon, XVI, 298; orthotype *P. MARGINATUS* Jerdon. Jerdon (*Ann. Mag. Nat. Hist.*, 1865, 298) claims priority of *PRISTOLEPIS* over *CATOPRA* Blkr. *CATOPRA* was first noted in 1851.

432. LANKESTER (1850). (*Fishes of the Old Red Sandstone*.)

EDWIN RAY LANKESTER (1847-).

Zenaspis Lankester, 43; orthotype *CEPHALASPIS SALWEYI* Egert. (fossil). A synonym of *CEPHALASPIS*.

433. LOWE (1850). *An Account of Fishes Discovered or Observed in Madeira Since the Year 1842*. Proc. Zool. Soc. London, XVIII.

RICHARD THOMAS LOWE.

Phænodon Lowe, 250; orthotype *P. RINGENS* Lowe. A synonym of *ASTRONESTHES* Rich.

434. PICTET (1850). *Description de quelques poissons fossiles du Mont Liban*. Mém. Soc. Phys. Hist. Nat. Genève, XII, 1849, published in 1850.

FRANÇOIS JULES PICTET (1809-1872).

Petalopteryx Pictet, 20; orthotype *P. SYRIACUS* Pictet (fossil).

Eurypholis Pictet, 28 logotype *E. BOISSIERI* Pictet (fossil). A synonym of *SAURORHAMPHUS*.

Spaniodon Pictet, 33; logotype *S. BLONDELI* Pictet (fossil).

Coccodus Pictet, 51; orthotype *C. ARMATUS* Pictet (fossil).

435. RICHARDSON (1850). *Notices of Australian Fish*. Proc. Zool. Soc. London. XVIII.

JOHN RICHARDSON.

Sciænoides (Solander MS.). Richardson, 62; haplotype *S. ABDOMINALIS* Solander = *SCIÆNA MACROPTERA* Forster; in synonymy only; a species of *DACTYLOSPARUS* Gill.

Threpterus Richardson, 68; orthotype *T. MACULOSUS* Rich.

Olisthops Richardson, 74; orthotype *O. CYANOMELAS* Rich. (Also in *Ann. Mag. Nat. Hist.*, VIII, 185, 290,) Name spelled *OLISTHEROPS* by Günther.

436. TEMMINCK & SCHLEGEL (1850). *Fauna Japonica* (last part).

COENRAAD JACOB TEMMINCK; HERMANN SCHLEGEL.

Pseudoblennius Temminck & Schlegel, 313; orthotype *P. PERCOIDES* Gthr.

Pseudoclinus Temminck & Schlegel, pl. LXXIX; orthotype *PSEUDOBLENNIUS PERCOIDES* Gthr. A slip of the pen for *PSEUDOBLENNIUS*.

Velifer Temminck & Schlegel, 312; orthotype *V. HYPSELOPTERUS* Blkr.

437. THIOLLIÈRE (1850). *Un nouveau gisement de poissons fossiles dans le Jura de département de l'Ain*. Ann. Soc. Agric. Lyon, I.

VICTOR JOSEPH DE L'ISLE THIOLLIÈRE.

Disticholepis Thiollière, III, 136; orthotype *M. FOURNETI* Thiollière. A synonym of *MACROSEMIUS* Ag.

Oligopleurus Thiollière, III, 154; orthotype *O. ESOCINUS* Thiollière (fossil).

1851

438. BLEEKER (1851). *Visschen van Banka*. Nat. Tijdschr. Neder.-Indie, 1851. PIETER BLEEKER.

Gnathanodon Bleeker, 160; orthotype *SCOMBER SPECIOSUS* Forskål. Not *CARANX* of Lacépède, as first restricted (to *C. CARANGUS*) by Bleeker.

439. BLEEKER (1851). *Nieuwe bijdrage tot de kennis der ichthyologische fauna van Borneo, met beschrijving van eenige nieuwe soorten van zoetwater-visschen*. Nat. Tijdschr. Neder.-Indie, II.

PIETER BLEEKER.

Wallago Bleeker, 202; orthotype *WALLAGO DINEMA* Blkr.

Achiroides Bleeker, 262; logotype *PLAGUSIA MELANORHYNCHUS* Blkr.

Clupeoides Bleeker, 275; orthotype *C. BORNEENSIS* Blkr. A synonym of *CORICA* Gray.

Luciocephalus Bleeker, 278; orthotype *DIPLOPTERUS PULCHER* Gray. Replaces *DIPLOPTERUS* Gray, preoccupied in birds.

440. BLEEKER (1851). *Over einige nieuwe geslachten en soorten van Makreelagtige Visschen van den Indischen Archipel*. Nat. Tijdschr. Neder.-Indie, I, 1851.

PIETER BLEEKER.

Decapterus Bleeker, II, 358; orthotype *CARANX KURRA* Cuv. & Val.

Selar Bleeker, 359; logotype *CARANX HASSELTII* Blkr. (*C. BOOPS* Cuv. & Val. indicated as type by Jordan & Evermann, 1898, was not named in Bleeker's first account (only *S. HASSELTII*, *S. KUHLI*, *S. MACRURUS*, *S. MALAM*).

Carangoides Bleeker, 366; orthotype *CARANX PRÆUSTUS* Bennett, the only other species here mentioned being *C. ATROPUS*, type of *ATROPUS* Cuv. Defined to include *CITULA*, *ATROPUS* and *OLISTUS* as well as *CARANGOIDES* proper, as restricted by Jordan & Evermann.

Leioglossus Bleeker, 367; orthotype *L. CARANGOIDES* Blkr.

Stromateoides Bleeker, I, 368; orthotype *STROMATEUS CINEREUS* Bloch; a synonym of *PAMPUS* Bon.

441. BLEEKER (1851). *Derde bijdrage tot de kennis der ichthyologische fauna van Borneo, etc.* Nat. Tijdschr. Neder.-Indie, II.

PIETER BLEEKER.

Tetrabanchus Bleeker, II, 69; orthotype *T. MICROPHTHALMA* Blkr. A synonym of *SYMBRANCHUS* Bloch.

Catopra Bleeker, 172; orthotype *C. FASCIATA* Blkr. A synonym of *PRISTOLEPIS* Jerdon, 1850.

442. BLEEKER (1851). *Cheilinoides, een nieuw geslacht van gladschubbige Labroiden van Batavia*. Nat. Tijdschr. Neder.-Indie, II.

PIETER BLEEKER.

Cheilinoides Bleeker, II, 71; orthotype *C. CYNANOPLEURA* Blkr.

443. BLEEKER (1851). *Vierde bijdrage tot den kennis der ichthyologische fauna van Borneo, met beschrijving van eenige nieuwe soorten van zoetwater-visschen*. Nat. Tijdschr. Neder.-Indie, II.

PIETER BLEEKER.

Bagroides Bleeker, II, 204; orthotype *B. MELANOPTERUS* Blkr.

444. BLEEKER (1851). *Nieuwe bijdrage tot de kennis der ichthyologische fauna van Celebes*. Nat. Tijdschr. Neder.-Indie, II, 1851.

PIETER BLEEKER.

Megalaspis Bleeker, II, 213; orthotype *SCEMBER CORDYLA* L. (*CARANX ROTTLEI* Blkr.).

Selaroides Bleeker, II, 213; orthotype *CARANX LEPTOLEPIS* Kuhl & Van Hasselt. Later called *LEPTASPIS*, the reason not stated.

Spratelloides Bleeker, 214; orthotype *CLUPEA ARGYROTÆNIA* Blkr.

445. BLEEKER (1851). *Bijdrage tot de kennis der ichthyologische fauna van de Banda eilanden*. Nat. Tijdschr. Neder.-Indie, II.

PIETER BLEEKER.

Labroides Bleeker, II, 249; orthotype *L. PARADISEUS* Bleeker.

Syngnathoides Bleeker, 259; orthotype *S. BLOCHI* Blkr. Replaces *GASTEROTOKEUS* Heckel (1856).

446. GAIMARD (1851). *Voyage de la Commission Scientifique du Nord. Voyage en Skandinavie, en Laponie, à Spitzberg et aux Faroë*, Paris, VII. Zoologie (1851).

JOSEPH PAUL GAIMARD.

Eperlanus Gaimard, VII; orthotype SALMO EPERLANUS L. A synonym of OSMERUS L. (Not seen.)

447. GIRARD (1851). *On the Genus Cottus auct.* Proc. Boston Soc. Nat. Hist., III. CHARLES FRÉDÉRIC GIRARD (1822-1895).

Acanthocottus Girard, III, 185; logotype COTTUS GRÆNLANDICUS Cuv. & Val. A section under MYOXOCEPHALUS Steller.

448. GIRARD (1851). *Some Additional Observations on the Nomenclature and Classification of the Genus Cottus.* Proc. Boston Soc. Nat. Hist., III (for 1848), 1851.

CHARLES FRÉDÉRIC GIRARD.

Cottopsis Girard, III, 303; orthotype COTTUS ASPER Rich. A section of COTTUS L.

449. GRAY (1851). *Description of a New Form of Lamprey from Australia with a Synopsis of the Family.* Proc. Zool. Soc. London.

JOHN EDWARD GRAY.

Geotria Gray, 143; orthotype GEOTRIA AUSTRALIS Gray.

Velasia Gray, 143; orthotype V. CHILENSIS Gray.

Caragola Gray, 143; orthotype C. LAPICIDA Gray. Same as MORDACIA Gray.

Mordacia Gray, 144; orthotype PETROMYZON MORDAX Rich. A synonym of CARAGOLA Gray.

Lampetra Gray, 235; logotype PETROMYZON FLUVIATILIS L.

450. LÜTKEN (1851). *Nogle bemaerkinger om naeseborenes stiling hos de i gruppe med Ophisurus staaende slaegter af aalefamilien.* Vidensk. Meddel. Naturhist. Foren. Kjöbenhavn.

CHRISTIAN FREDERIK LÜTKEN (1827-1901).

Myrophis Lütken, 1; orthotype M. PUNCTATUS Lütken.

Chilorhinus Lütken, 1; orthotype C. SUENSONI Lütken.

451. MEYER (1851). *Fossile Fische aus dem Muschelkalk von Jena, Querfurt und Esperstadt.* Palæontographica.

HERMANN VON MEYER.

Tholodus (Meyer) Schmid & Schleiden, I, 199; orthotype T. SCHMIDI (fossil). Perhaps a tooth of a reptile.

- 452, 453. MEYER (1851). *Palæontographica.* I.

HERMANN VON MEYER.

Nephrotus Meyer, I, 243; orthotype OMPHALODUS CHORZOWENSIS Meyer (fossil). A synonym of ASTERODON.

454. M'COY (1851). (*Steganodictyum.*) Mag. Nat. Hist., VIII.

FREDERICK M'COY.

Steganodictyum M'Coy, VIII, 481; orthotype S. CORNUBICUM M'Coy (fossil). (Shields of a PTERASPID mistaken for part of a sponge.)

455. THOMPSON (1851). *On Percopsis pellucida.* Proc. Boston Soc. Nat. Hist., III. ZADOCK THOMPSON (1796-1856).

Salmoperca Thompson, III, 164; haplotype SALMOPERCA PELLUCIDA Thompson = PERCOPSUS GUTTATIS Ag. = SALMO OMISCOMAYCUS Walbaum. A synonym of PERCOPSIS Ag., 1848.

456. WAGNER (1851). *Beiträge zur Kenntniss der in den lithographischen Schieferen abgelagerten urweltlichen Fische*. Abh. Bayer. Akad. Wiss., VI.

JOHANN ANDREAS WAGNER (1797-1861).

Mesodon Wagner, VI, 56; orthotype *GYRODUS MACROPTERUS* Ag. (fossil). Name preoccupied in mollusks, Rafinesque, 1819; replaceable by *TYPODUS* Quenstedt, 1858.

Strobilodus Wagner, VI, 75; orthotype *S. GIGANTEUS* Wagner (fossil). A synonym of *CATURUS* Ag.

1852

457. BLEEKER (1852). *Bijdrage tot de kennis der Makreelachtige visschen van den Soenda-Molukschen Archipel*. Verh. Batav. Genootsch., XXIV, 1852.

PIETER BLEEKER.

Leptaspis Bleeker, XXIV, 71; orthotype *CARANX LEPTOLEPIS* Kuhl & Van Hasselt. Called earlier *SELAROIDES*, the reason for changing not known to me.

458. BLEEKER (1852). *Bijdrage tot de kennis der Plagiostomen van den Indischen Archipel*. Verh. Batav. Genootsch., XXIV.

PIETER BLEEKER.

Hemigaleus Bleeker, XXIV, 45; orthotype *H. MICROSTOMA* Blkr. Preoccupied in mammals as *HEMIGALEA*.

459. BLEEKER (1852). *Diagnostische beschrijving van nieuwe of weinig bekende visschsoorten van Sumatra*. Nat Tijdschr. Neder.-Indie, III, 1852.

PIETER BLEEKER.

Pristipomoides Bleeker, III, 574; orthotype *P. TYPUS* Blkr. Replaces *CHÆTOPTERUS* T. & S., preoccupied

460. BLEEKER (1852). *Derde bijdrage tot de kennis der ichthyologische fauna van Celebes*. Nat. Tijdschr. Neder.-Indie, III.

PIETER BLEEKER.

Carangichthys Bleeker, III, 760; orthotype *C. TYPUS* Blkr. A synonym of *CARANX* Lac. (based on young specimens).

461. DUMÉRIL (1852). *Monographie de la famille des torpediniens, ou poissons plagiostomes électriques*. Rev. Mag. Zool., IV.

AUGUSTE HENRI ANDRÉ DUMÉRIL (1812-1870).

Hypnos A. Duméril, 279; orthotype *H. SUBNIGRUM* Dum. Name preoccupied; replaced by *HYPNARCE* Waite, 1902.

462. EGERTON (1852). *Fish: Elasmodus, etc.* (In *Figures and Descriptions of British Organic Remains*.) Mem. Geo. Surv. United Kingdom.

PHILIP DE MALPAS GREY EGERTON.

Lophistomus Egerton, Dec. VI, No. 10; orthotype *L. DIXONI* Egert. (fossil).

463. FISCHER VON WALDHEIM (1852). *Sur quelques poissons fossiles de la Russie*. Bull. Soc. Imp. Nat. Moscou, XXV.

GOTTHELF FISCHER VON WALDHEIM.

Pycnacanthus Fischer von Waldheim, XXV, 174; orthotype (not named by Woodward) (fossil). (An unrecognized fragment.)

Siphonodus Fischer von Waldheim, XXV, 175; orthotype *S. PANDERI* Waldheim (fossil).

464. GERVAIS (1852). *Zoologie et Paléontologie Françaises*. II.

FRANÇOIS LOUIS PAUL GERVAIS.

Sandroserrus Gervais, II, 8; orthotype PERCA REBOULI Gervais (fossil).

465. LOWE (1852). *An Account of Fishes Discovered or Observed in Madeira Since the Year 1842*. Ann. Mag. Nat. Hist. London, ser. X.

RICHARD THOMAS LOWE.

Leptorhynchus Lowe, X, 54; orthotype L. LEUCHTENBERGI Lowe. Name preoccupied; replaced by BELONOPSIS Brandt. A synonym of NEMICHTHYS Rich.

466. QUENSTEDT (1852). *Handbuch der Petrefaktenkunde*.

FRIEDRICH AUGUST VON QUENSTEDT (1809-1889).

Selachidea Quenstedt, 173; orthotype S. TOROLOSII Quenstedt (fossil). Probably a synonym of HYBODUS.

Serrolepis Quenstedt, 207; orthotype S. SUEVICUS Dames. (fossil).

Pleurolepis Quenstedt, 214; orthotype P. SEMICINCTUS Quenstedt (fossil). A synonym of TETRAGONOLEPIS Bronn.

467. ROEMER (1852). *Die Kreidebildungen von Texas und ihre organischen Einschlüsse. Mit einem die Beschreibung von Versteinerungen aus paläozoischen und tertiären Schichten enthaltenden Anhang und mit 11 von Choehnach der Natur auf Stein gezeichneten Tafeln*. Bonn.

CARL FERDINAND VON ROEMER.

Ancistrodon (Derby) Roemer, 30; orthotype later called A. TEXANUS Dames (fossil). Teeth undetermined. Name preoccupied in snakes as AGKISTRODON; replaced by ANKISTRODUS Koninck, 1870, scarcely better, and by GRYPDON Hay, 1899.

468. RÜPPELL (1852). *Verzeichniss der in dem Museum der senckenbergischen naturforschenden Gesellschaft aufgestellten Sammlungen*. Vierte Abtheilung. Fische und deren Skelette.

WILHELM PETER EDUARD SIMON RÜPPELL.

Microichthys Rüppell, 1; orthotype M. COCCOI Rüppell.

Pharopteryx Rüppell, 16; orthotype P. BENOIT Rüppell. Not PHAROPTERYX of Rüppell, 1828, which is a synonym of PLESIOPS Cuv. A synonym of MORA Risso.

Choerops Rüppell, 20; orthotype C. MELEAGRIS Rüppell. A synonym of CHÆRODON Blkr.

Sarotherodon Rüppell, 21; orthotype S. MELANOTHERON Rüppell.

Erythron Rüppell, 34; orthotype BALISTES NIGER Lac., BALISTES ERYTHRON Gthr. Substitute for XENODON Rüppell, 1835, preoccupied, but the name ODONUS Gistel (1848) has priority and ZENODON Sw. (1829) is still older, if available.

1853

469. AGASSIZ (1853). *Recent Researches of Professor Agassiz*. (Extract from letter to J. D. Dana dated Cambridge, June 9, 1853). Amer. Journ. Sci., XVI.

LOUIS AGASSIZ.

In this paper four new genera are briefly described. The species concerned were not named until later.

Chologaster Agassiz, 135; (haplotype CHOLOGASTER CORNUTUS Ag.). Short account of the genus, the species named later.

Heterandria Agassiz, 135; (logotype H. FORMOSA Ag.). Stated to contain two species named later, H. FORMOSA and H. HOLBROOKI, the latter being GAM-

BUSIA PATRUELIS Baird & Grd. After consultation with Professor Poey FORMOSA was chosen by Jordan as the type of HETERANDRIA. This name replaces GIRARDINUS Poey.

Zygonectes Agassiz, 135; logotype POECILIA OLIVACEA Storer = SEMOTILUS NOTATIUS Raf. Brief notice of genus; its species indicated in 1854 (*Fish. Tennessee River*).

Melanura Agassiz, 135; orthotype EXOGLOSSUM ANNULATUM Raf. Note on the genus, the type indicated on page 217 of the same journal. A synonym of UMBRA Gronow.

470. AGASSIZ (1853). *Extraordinary Fishes from California Constituting a New Family (Holconoti or Embiotocidæ)*. Amer. Journ. Sci., XVI.

LOUIS AGASSIZ.

Embiotoca Agassiz, 386; orthotype E. JACKSONI Ag.

471. BAIRD & GIRARD (1853). *Descriptions of New Species of Fishes Collected by Mr. John H. Clark on the U. S. and Mexican Boundary Survey, under Lt.-Col. Jas. D. Graham*. Proc. Acad. Nat. Sci. Phila.

SPENCER FULLERTON GIRARD (1823-1887); CHARLES GIRARD.

Ceraticthys Baird & Girard, 391; orthotype C. VIGILAX Baird & Girard (not of Baird & Girard, 1856). No description. Replaces CLIOLA Grd., 1856.

472. BAIRD & GIRARD (1853). *Descriptions of New Fishes from the River Zuñi*. Proc. Acad. Nat. Sci. Phila.

SPENCER FULLERTON BAIRD; CHARLES GIRARD.

Gila Baird & Girard, VI, 368; logotype GILA ROBUSTA Grd.

473. BLEEKER (1853). *Diagnostische beschrijvingen van nieuwe of weinig bekende visschsoorten van Batavia*. Tintal I-IV, Nat. Tijdschr. Neder.-Indie, IV, 1853.

PIETER BLEEKER.

Murænichthys Bleeker, 506; orthotype M. GYMNOPTERUS Blkr.

474. BLEEKER (1853). *Nieuwe bijdrage tot de kennis de ichthyologische fauna van Ternate en Halmahera (Giolo)*. Nat. Tijdschr. Neder.-Indie, IV.

PIETER BLEEKER.

Polypterichthys Bleeker, II, 608; orthotype P. VALENTINI Blkr. A synonym of AULOSTOMUS.

475. BLEEKER (1853). *Zevende bijdrage tot de kennis der ichthyologische fauna van Borneo. Zoetwatervisschen van Sambas, Pontianak en Pengaron*. Nat. Tijdschr. Neder.-Indie, V.

PIETER BLEEKER.

Datnioides Blkr., V, 440; orthotype CIUS POLOTA Ham. A synonym of COIUS Ham., as restricted by Fowler, 1905, to COIUS POLOTA. This antedates the restriction by Jordan (*Genera of Fishes*, 1917, 114) to C. COBOJUS Ham.

476. BLEEKER (1853). *Bijdrage tot de kennis der Murænoïden en Symbranchoïden van den Indischen Archipel*. Verh. Batav. Genootsch., XXV.

PIETER BLEEKER.

Stethopterus Bleeker, XXV, 24, 36; orthotype OPHISURUS VIMINEUS Rich. A synonym of LEIURANUS Blkr. and having line priority.

Leiuranus Bleeker, XXV, 36; orthotype *L. LACEPEDEI* Blkr. (*OPHISURUS SEMI-CINCTUS* Bennett.). Same as *STETHOPTERUS* Blkr., the latter having line priority, the name *LEIURANUS* preferred by the author.

477. BLEEKER (1853). *Nalezingen op de ichthyologie van Japan*. Verh. Batav. Genootsch., XXV.

PIETER BLEEKER.

Atherinichthys Bleeker, 40; orthotype *ATHERINA HUMBOLDTIANA* Cuv. & Val. A synonym of *CHIROSTOMA* Sw.

Atherinoides Bleeker, 40; orthotype *ATHERINA VOMERINA* Cuv. & Val. = *ATHERINA HUMBOLDTIANA* Cuv. & Val. A synonym of *CHIROSTOMA* Sw.

Etrumeus Bleeker, XXV, 48; orthotype *CLUPEA MICROPUS* T. & S.

478. BLEEKER (1853). *Nalezingen op de ichthyologische fauna van Bengalen en Hindostan*. Verh. Batav. Genootsch., XXV.

PIETER BLEEKER.

Bogoda Bleeker, 89; *CHANDA BOGODA* Ham. = *CHANDA NAMA* Ham. A synonym of *CHANDA* as now restricted.

Badis Bleeker, 106; orthotype *LABRUS BADIS* Ham. = *BADIS BUCHANANI* Blkr.

Bagarius Bleeker, 121; tautotype *PIMELUDUS BAGARIUS* Ham.

479. COSTA (1853). (*Fossil Fishes of Italy*.) Atti Soc. Pontan, VII.

ORONZIO GABRIELE COSTA.

Ionoscopus Costa, 2; orthotype *I. PETRAROLÆ* Costa (fossil). Name changed in 1864 to *ÆNOSCOPUS* Costa for no obvious reasons.

Calignathus Costa, VII, 17; orthotype *BLENNIOMÆUS LONGICAUDA* Costa (fossil). A synonym of *NOTAGOGUS* Ag.

Glossodus Costa, VII, 26; orthotype *PYCNODUS MANTELLI* Ag. (fossil). Name preoccupied; to be replaced by *COSMODUS* Sauvage (1879).

480. GERVAIS (1853). *Remarques sur les poissons fluviatiles de l'Algérie, et description de deux genres nouveaux sous les noms de Coptodon et Tellia*. Ann. Nat. (Zool.), XIX.

FRANÇOIS LOUIS PAUL GERVAIS.

Coptodon Gervais, II, 15; orthotype *C. ZILLI* Gervais. Also in *Bull. Soc. Agr. Hérault*, 1853, 80.

Tellia Gervais, XIX, 15; orthotype *TELLIA APODA* Gervais.

481. KAUP (1853). *Uebersicht der Lophobranchier*. Archiv. Naturg.

JOHANN JACOB KAUP (1802-1873).

All these genera, except *HEMIMARSUPIUM*, are repeated in Kaup's *Catalogue of the Lophobranchiate Fishes in the British Museum*, 1856.

Acentronura Kaup, 230; orthotype *HIPPOCAMPUS GRACILLIMUS* T. & S.

Gasterotokeus (Heckel) Kaup, 230; orthotype *SYNGNATHUS BIACULEATUS* Bloch = *SYNGNATHOIDES BLOCHI* Blkr. A synonym of *SYNGNATHOIDES* Blkr.

Halicampus Kaup, 231; logotype *H. GRAYI* Kaup.

Trachyrhamphus Kaup 231; orthotype *T. SERRATUS* Kaup (not *SYNGNATHUS SERRATUS* T. & S.).

Corythroichthys Kaup, 231; logotype *C. ALBIROSTRIS* Heckel. A synonym of *HIPPICHTHYS* Blkr.

Ichthyocampus Kaup 231; logotype *I. BELCHERI* Kaup.

Leptonotus Kaup, 232; orthotype *SYNGNATHUS BLAINVILLEANUS* Eydoux & Gervais.

Leptoichthys Kaup, 232; orthotype *L. FISTULARIS* (Bibron).

Stigmatophora Kaup, 233; logotype *SYNGNATHUS ARGUS* Rich.

Doryrhamphus Kaup, 233; orthotype *D. EXCISUS* Kaup.

Choëroichthys Kaup, 233; orthotype *C. VALENCIENNESI* Kaup.

Doryichthys Kaup, 233; logotype *D. BILINEATUS* Heckel.

Hemimarsupium Kaup, 234; orthotype *TYPHLUS GONDOTII* Bibron. For this name Kaup has substituted in 1856 the name *HEMITHYLACUS*. Replaces *CÆLONOTUS* Peters, 1855.

Microphis Kaup, 234; logotype *SYNGNATHUS DEOKHATA* Ham.

482. KÖLLIKER (1853). *Weitere Bemerkungen über die Helmichthyiden*. Verh. Phys. Med. Ges. Würzburg., IV.

RUDOLPH ALBERT VON KÖLLIKER (1817-1905).

Tilurus Kölliker, IV, 100; orthotype *T. GEGENBAURI* Kölliker. A larva of some form allied to *CONGPR*.

Hyoprurus Kölliker, IV, 101; orthotype *H. MESSINENSIS* Kölliker. A larva of *NETASTOMA* Raf.

483. OWEN (1853). (*Fossil Fishes.*) Quarterly Journ. of Geology.

RICHARD OWEN.

Parabatrachus Owen, IX, 67; orthotype *P. COLEI* Owen (fossil). Same as *CENTRODUS* M'Coy, a preoccupied name.

484. POMEL (1853). *Catalogue méthodique des vertèbres fossiles de la Loire*. A. POMEL.

Propalæoniscus Pomel, 133; orthotype *P. AGASSIZI* Pomel (fossil) (undescribed). Probably the same as *ELONICHTHYS*.

Cobitopsis Pomel, 134; orthotype *C. EXILIS* Pomel (fossil).

Pæcilops Pomel, 135; orthotype *P. BREVICEPS* Pomel (fossil).

485. ROMANOVSKII 1833). *Ueber eine neue Gattung versteinerte Fisch-Zähne*. Bull. Soc. Imp. Nat. Moscou, XXVI.

GHENNADI DANILOVICH ROMANOVSKII.

Dicrenodus Romanovskii, XXVI, 407; orthotype *D. OKENSIS* Romanovskii (fossil). Same as *CARCHAROPSIS* Ag.

1854

486. AGASSIZ (1854). *Notice of a Collection of Fishes from the Southern Bend of the Tennessee River in the State of Alabama*. Am. Journ. Sci., XVII.

LOUIS AGASSIZ.

Pæcilichthys Agassiz, 304; orthotype *ETHEOSTOMA VARIATUM* Kirtland. Substitute for *PÆCILOSOMA* Ag., preoccupied.

Catonotus Agassiz, 305; haplotype *C. LINEOLATUS* Ag. This name has been regarded as a synonym of *ETHEOSTOMA*, but a decision of the International Committee makes *ETHEOSTOMA* identical with *HYOSTOMA*.

Hadropterus Agassiz, 305; haplotype *H. NIGROFASCIATUS* Ag.

Hyostoma Agassiz, 305; haplotype *H. NEWMANI* Ag. = *ETHEOSTOMA BLENNIODES* Raf. 1818. A synonym of *ETHEOSTOMA* Raf. and of *DIPLESION* Raf. (1820).

Hybopsis Agassiz, 358; haplotype *H. GRACILIS* Ag., identified by me with *RUTILUS AMBLOPS* Raf., a member of the group called *ERINEMUS* Jordan. If this identification is correct, Agassiz must have overlooked the characteristic barbel. His description fairly fits another species of the same waters, without a bar-

bel, *HYBOPSIS STRAMINEUS* Cope (*MINNILUS MICROSTOMUS* Raf.), a near ally of *ALBURNOPS BLENNIUS*, type of *ALBURNOPS*. Girard and Jordan identify *HYBOPSIS* with *ERINEMUS*; Cope with the *ALBURNOPS* group. Girard's view seems on the basis of evidence available to be correct, and *HYBOPSIS* replaces *ERINEMUS*.

Hypsolepis (Baird) Agassiz, 359; haplotype *CYPRINUS CORNUTUS* Mitchill. A subgenus under *NOTROPIS*. A synonym of *LUXILUS* Raf., later written *HYPSILEPIS*.

487. AGASSIZ (1854). *Additional Notes on the Holconoti*. Amer. Journ. Sci. XVIII (May, 1854).

LOUIS AGASSIZ.

Rhacochilus Agassiz, 367; orthotype *R. TOXOTES* Ag.

Amphistichus Agassiz, 367; orthotype *A. ARGENTEUS* Ag.

Holconotus Agassiz, XXVII, 367; orthotype *H. RHODOTERUS* Ag.

488. AYRES (1854). (*Description of New Fishes from California*.) Proc. Calif. Acad. Nat. Sci., I (1857).

WILLIAM O. AYRES.

Clypeocottus Ayres, 12; orthotype *C. ROBUSTUS* Ayres = *ASPICOTTUS BISON* Grd. A synonym of *ASPICOTTUS* Grd. of the same date.

489. AYRES (1854). (*Description of Four Species of Fishes, Camarina nigricans, Poronotus simillimus Ayres, Johnius nobilis, and Seriphus politus*.) Proc. Calif. Acad. Nat. Sci., I (1857).

WILLIAM O. AYRES.

Seriphus Ayres, 80; orthotype *SERIPHUS POLITUS* Ayres.

Camarina Ayres, 81; orthotype *CAMARINA NIGRICANS* Ayres. A synonym of *GIRELLA* Gray.

490. BAIRD & GIRARD (1854). *Descriptions of New Species of Fish Collected in Texas, New Mexico and Sonora, by Mr. John H. Clark on the U. S. and Mexican Boundary Survey, and in Texas by Capt. Stewart Van Vliet, U. S. A.* Proc. Acad. Nat. Sci. Phila.

SPENCER FULLERTON BAIRD; CHARLES GIRARD.

Herichthys Baird & Girard, 25; haplotype *H. CYANOGLUTTATUS* Baird & Girard. A synonym of *HEROS* Heckel, itself a synonym of *ASTRONOTUS* Sw.

Ailurichthys Baird & Girard, 26; haplotype *SILURUS MARINUS* Mitchill (name corrected to *ÆLURICHTHYS* by Gill). A synonym of *BAGRE* (Cuvier) Oken, 1817, and *FELICHTHYS* Sw., 1839.

Astyanax Baird & Girard, 26; haplotype *A. ARGENTATUS* Baird & Girard.

491. BAIRD & GIRARD (1854). *Notice of a New Genus of Cyprinidæ (Cochlognathus)*. Proc. Acad. Nat. Sci. Phila.

SPENCER FULLERTON BAIRD; CHARLES GIRARD.

Cochlognathus Baird & Girard, 150; haplotype *C. ORNATUS* Baird & Girard.

492. BLEEKER (1854). *Species piscium bataviensium novæ vel minus cognitæ*. Nat. Tijdschr. Neder.-Indie, VI.

PIETER BLEEKER.

Seriolichthys Bleeker, VI, 196; orthotype *SERIOLA BIPINNULATA* Q. & G. A synonym of *ELAGATIS* Bennett.

493. BLEEKER (1854). *Bijdrage tot de kennis der ichthyologische fauna van het eiland Flores*. Nat Tijdschr. Neder.-Indie, VI, 1854, 311-338.

PIETER BLEEKER.

Apogonichthys Bleeker, 321; logotype *A. PERDIX* Blkr.

Labrichthys Bleeker, 415; orthotype *L. CYANOTÆNIA* Blkr.

494. BLEEKER (1854). *Vijfde bijdrage tot de kennis der ichthyologische fauna van Amboina*. Nat. Tijdschr. Neder.-Indie, VI.

PIETER BLEEKER.

Tropidichthys Bleeker, VI, 501; logotype *T. MARGARITATUS* Blkr. A synonym of *CANTHIGASTER* Sw.

- 494A. BLEEKER (1854). *Bijdrage tot de Kennis van de ichthyologische fauna van Celebes*. Nat. Tijdschr. Neder.-Indie, VII.

PIETER BLEEKER.

Chonerhinos Bleeker, 259; orthotype *TETRAODON MODESTUS* Blkr.; replaces *XENOPTERUS* Bibron (1855).

495. BRANDT (1854). (*Belonopsis*.) Mém. Acad. Sci. St. Petersburg.

JOHANN FRIEDRICH BRANDT.

Belonopsis Brandt, 174; orthotype *LEPTORHYNCHUS LEUCHTENBERGI* Lowe. Substitute for *LEPTORHYNCHUS*, preoccupied; a synonym of *NEMICHTHYS* Rich.

496. COSTA (1854). *Fauna del regno di Napoli, ossia enumerazione di tutti gli animali che abitano le diverse regioni di questo regno e le acque che le bagnano; contenente la descrizione di nuovi o poco esattamente conosciuti; con figure ricavata da original viventi e dipinte al naturale di O. G. Costa (continuata da A. Costa)*.

ORONZIO GABRIELE COSTA.

Helmichthys Costa, tavola 31; orthotype *H. DIAPHANUS* Costa. A larva of *CONGER*.

497. EGERTON (1854). *On Some New Genera and Species of Fossil Fishes*.

Ann. Mag. Nat. Hist., XIII.

PHILIP DE MALPAS GREY EGERTON.

Æchmodus Egerton, X, 367; logotype *TETRAGONOLEPIS CONFLUENS* Ag. (fossil). A substitute for *TETRAGONOLEPIS* Ag., not of Bronn. A synonym of *DAPEDIUM* Leach.

Histionotus Egerton, XIII, 434; orthotype *H. ANGULARIS* Egert. (fossil).

Legnonotus Egerton, III, 435; orthotype *L. COTHAMIENSIS* Egert. (fossil).

498. EGERTON (1854). *Palæichthyologic Notes. Supplemental to the Works of Prof. Agassiz*. Quart. Journ. Geol. Soc. On a fossil (*DIPTERONOTUS CYPHUS*) from the upper beds of the new red sandstone at Bromsgrove, X.

PHILIP DE MALPAS GREY EGERTON.

Dipteronotus Egerton, X, 369; orthotype *D. CYPHUS* Egert.

499. EICHWALD (1854). *Lethæa Rossica, ou Paléontologie de la Russie décrite et figurée*.

CARL EDUARD VON EICHWALD.

Thyestes Eichwald, I, 108; orthotype *T. VERRUCOSUS* Eichw. (fossil).

500. GIBBONS (1854). *Description of New Species of Viviparous Marine and Fresh-water fishes, from the Bay of San Francisco and from the River and Lagoons of the Sacramento*. Proc. Acad. Nat. Sci. Phila., VII. (These

genera were printed in advance, in the local proceedings of the society, in the *Daily Placer Times and Transcript*, San Francisco, May and June, 1854 (the genus MYTILOPHAGUS excepted.)

WILLIAM P. GIBBONS.

Hysterochampus Gibbons, May 18; orthotype H. TRASKI Gibbons (later published in *Proc. Acad. Nat. Sci. Phila.*).

Cymatogaster Gibbons, May 18; haplotype C. AGGREGATUS Gibbons (not CYMATOGASTER of Gibbons, *Proc. Acad. Nat. Sci. Phila.*, 1854, 123, or of *Placer Times*, June 21, which is a synonym of HOLCONOTUS Ag.)

Hyperprosopon Gibbons, May 18; orthotype H. ARGENTEUS Gibbons.

Micrometrus Gibbons, May 30; restricted by Alexander Agassiz, 1861, to logotype M. MINIMUS Gibbons. Replaces ABEONA Grd.

Pachylabrus Gibbons, June 21; orthotype P. VARIEGATUS Gibbons. A synonym of RHACOCILUS Ag.

501. GIBBONS (1854). *Description of New Species of Viviparous Marine and Fresh-water Fishes, from the Bay of San Francisco, and from the River and Lagoons of the Sacramento.* *Proc. Acad. Nat. Sci. Phila.*, 1854, VII.

WILLIAM P. GIBBONS.

In this paper are repeated the descriptions in the *Daily Placer Times and Transcript*, with the addition of the genus MYTILOPHAGUS, and the transfer of the name CYMATOGASTER to the group called HOLCONOTUS by Agassiz.

Mytilophagus Gibbons, 125; orthotype M. FASCIATUS Gibbons (not in the *Placer Times*). A synonym of AMPHISTICHUS Ag.

502. GIRARD (1854). *On a New Genus of American Cottoids.* *Proc. Boston Soc. Nat. Hist.*, IV (for 1851), 1854.

CHARLES FRÉDÉRIC GIRARD.

Triglopsis Girard, IV, 16; haplotype T. THOMPSONI Grd. Name changed on account of the earlier TRIGLOPS to PTYONOTUS by Gthr., 1860; this change is not necessary.

502A. GIRARD (1854). *Description of New Fishes Collected by A. L. Heermann, Naturalist Attached to the Survey of the Pacific Railroad, Under Lieut. R. S. Williams, U. S. A.* *Proc. Acad. Nat. Sci. Phila.*, VII.

CHARLES FRÉDÉRIC GIRARD.

Aspicottus Girard, 130; orthotype A. BISON Grd.

Leptocottus Girard, 130; orthotype L. ARMATUS Grd.

Scorpænichthys Girard, 131; orthotype HEMITRIPTERUS MARMORATUS Ayres.

Ophiodon Girard, 133; orthotype O. ELONGATUS Grd.

Atherinopsis Girard, 134; orthotype A. CALIFORNIENSIS Grd.

Pogonichthys Girard, 136; logotype POGONICHTHYS INÆQUILOBUS Baird & Girard.

Lavinia Girard, 137; haplotype L. EXILICAUDA Baird & Girard.

Platichthys Girard, 139; orthotype P. RUGOSUS Grd. = PLEURONECTES STELLATUS Pallas.

Pleuronichthys Girard, 139; orthotype P. CENOSUS Grd.

Parophrys Girard, 139; orthotype P. VETULUS Grd.

Psettichthys Girard, 140; orthotype P. MELANOSTICTUS Grd.

503. GIRARD (1854). *Enumeration of the Species of Marine Fishes Collected at San Francisco, California, by Dr. C. B. R. Kennerly, Naturalist, Attached to*

the Survey of the Pacific Railroad Route Under Lieut. A. W. Whipple.
Proc. Acad. Nat. Sci., Phila., VIII.

CHARLES FRÉDÉRIC GIRARD.

Porichthys Girard, 141; orthotype *P. NOTATUS* Grd.

Heterostichthys Girard, 143; orthotype *H. ROSTRATUS* Grd.

Apodichthys Girard, 150; logotype *A. FLAVIDUS* Grd.

Phanerodon Girard, 153; orthotype *P. FURCATUS* Grd.

504. GIRARD (1854). *Abstract of a Report to Lieut. James M. Gilliss, U. S. N., Upon the Fishes Collected During the U. S. Naval Astronomical Expedition to Chili.* Proc. Acad. Nat. Sci. Phila. (Complete report printed in 1855.)

CHARLES FRÉDÉRIC GIRARD.

Percichthys Girard, 197; logotype *PERCA TRUCHA* Cuv. & Val.

Percilia Girard, 197; orthotype *P. GILLISSI* Grd.

Basilichthys Girard, 198; orthotype *ATHERINA MICROLEPIDOTA* Jenyns.

Heterognathus Girard, 198; logotype *ATHERINA HUMBOLDTIANA*, Cuv. & Val. A synonym of *CHIROSTOMA* Sw.

Nematogenys Girard, 198; orthotype *TRICHOMYCTERUS INERMIS* Guich.

Cheirodon Girard, VII, 199; orthotype *CHEIRODON PISCICULUS* Grd. Name spelled *CHIRODON* by Günther.

505. GIRARD (1854). *Notice Upon the Viviparous Fishes Inhabiting the Pacific Coast of North America, with an Enumeration of the Species Observed.* Proc. Acad. Nat. Sci. Phila., VII.

CHARLES FRÉDÉRIC GIRARD.

Damalichthys Girard, 321; orthotype *D. VACCA* Grd. = *EMBIOTOCA ARGYROSOMA* Grd.

Abeona Girard, 322; orthotype *A. TROWBRIDGEI* Grd. A synonym of *MICROMETRUS* Gibbons, as restricted by A. Agassiz (1861).

Ennichthys Girard, 322; logotype *HOLCONOTUS MEGALOPS* Grd. A synonym of *HYPERPROSOPON* Gibbons.

506. GRONOW (1854). *Catalogue of Fishes Collected and Described by Laurence Theodore Gronow, Now in the British Museum.* Edited from the manuscript, by Albert Günther (written about 1770, an admirable paper, had it seen the light 80 years earlier).

LORENZ THEODOR GRONOW.

(Laurentius Theodorus Gronovius.)

Pastinaca Gronow, 11; logotype *P. LÆVIS* Gronow, *RAJA PASTINACA* Gronow. A synonym of *DASYATIS* Raf.

Holacanthus Gronow, 23; orthotype *H. LEIONOTHOS* Gronow. Name preoccupied; a synonym of *TETRAODON* L. as understood.

Cestreus Gronow, 49; orthotype *C. CAROLINENSIS* Gronow. Name preoccupied by *CESTREUS* McCl.; equivalent to *CYNOSCION* Gill.

Boops Gronow, 58; orthotype *B. ASPER* Gronow = *PRIACANTHUS BOOPS* Cuv. A synonym of *PRIACANTHUS* Cuv.

Gonopterus Gronow, 77; orthotype *G. MÆRENS* Gronow. A synonym of *ZANCLUS* Cuv.

Adonis Gronow, 93; logotype *A. PAVONINUS* Gronow = *BLENNIUS OCELLARIS* L. A synonym of *BLENNIUS* L.

Gonocephalus Gronow, 105; orthotype *G. MACROCEPHALUS* Gronow = *TRIGLA VOLITANS* L. A synonym of *DACTYLOPTERUS* Lac.

- Sarda** Gronow, 119; logotype *SARDA IMMACULATA* Gronow = *SCOMBER PELAGICUS* L., not of Cuvier; a synonym of *CORYPHÆNA* L.
- Thynnus** Gronow, 121; logotype *T. MOLUCCENSIS* Gronow; name preoccupied; a synonym of *SCOMBEROIDES* Lac.
- Trachurus** Gronow, 124; logotype *T. CORDYLA* L. Name preoccupied; same as *MEGALASPIS* Blkr.
- Merlucius** Gronow, 129; orthotype *M. LANATUS* Gronow. Same as *MERLUCCIUS* Raf.
- Glanis** Gronow, 135; orthotype *G. IMBERBIS* Gronow = *MYSTUS CHIHALA* Ham. A species of *NOTOPTERUS*. Name preoccupied.
- Macrognathus** Gronow, 147; logotype *CENTRISCUS SCOLOPAX* L. Name preoccupied; a synonym of *MACRORHAMPHOSUS* Lac.
- Chromis** Gronow, 149; orthotype *C. EPICURORUM* Gronow = *GASTEROSTEUS SALATRIX* L. Name preoccupied; a synonym of *POMATOMUS* Lac.
- Cephalinus** Gronow, 159; logotype *BLENNIUS TORVUS*. A synonym of *CONGIOPUS* Perry (*AGRIOPUS* Cuv.).
- Trichopterus** Gronow, 162; orthotype *T. INDICUS* Gronow = *CHEILODACTYLUS FASCIATUS* Lac. A synonym of *CHEILODACTYLUS* Lac.
- Cordylus** Gronow, 163; orthotype *SCOMBER SCOMBRUS* L. A synonym of *SCOMBER* L.
- Mystus** Gronow, 165; type *M. CAROLINENSIS* Gray. Name preoccupied; a synonym of *BAGRE* Cuv. = *FELICHTHYS* Sw.
- Lepturus** Gronow, 165; orthotype *LEPTURUS BREVIROSTRIS* Gronow = *CORYPHÆNOIDES RUPESTRIS* Gunner. A synonym of *CORYPHÆNOIDES* Gunner.
- Dascillus** Gronow, 171; type not named; a clupeid fish, part of the description lost; not *DASYLLUS* Cuv.
- Amia** Gronow, 173; orthotype *A. PERCÆFORMIS* Gronow = *APOGON MOLUCEENSIS* Blkr. This is the first use of the name *AMIA* by a binomial author (after Gronow's non-binomial use in 1763) in place of *APOGON* Lac. This was followed afterward by Bleeker, Gill and others.
- Stethochætus** Gronow, 174; orthotype *S. BIGUTTATUS* Gronow; a synonym of *SETIPINNA* Sw. (*TELARA* Gthr.).
- Acronurus** Gronow, 190; logotype *TEUTHIS HEPATUS* L. A synonym of *HEPATUS* or *TEUTHIS*.
507. HECKEL (1854). *Ueber fossile Fische aus Chiavon und das geologische Alter der sie enthaltenden schichten*. Sitzb. Akad. Wiss. Wien, IX, 1854, 322-334.

JOHANN JACOB HECKEL

- Galeodes** Heckel, XI, 324; orthotype *GALEOCERDO PRISCUS* Zigno (fossil). A fossil ally of *GALEOCERDO*.
508. HECKEL (1854). *Bericht ueber die vom Herrn Cavaliere Achille de Zigno hier angelangte Sammlung fossiler Fische*. Sitzb. Akad. Wiss. Wien, XI, 1854.

JOHANN JACOB HECKEL

- Solenorhynchus** Heckel, XI, 126; orthotype *S. ELEGANS* Heckel (fossil).
- Enneodon** Heckel XI, 127; orthotype *E. ECHINUS* Heckel (fossil). Name preoccupied, replaced by *HEPTADIODON*; a fossil ally of *Diodon*.
- Vomeropsis** Heckel, XI, 134; logotype *VOMER LONGISPINUS* Ag. (fossil).
509. HYRTL (1854). *Beitrag zur Anatomie von Heterotis ehrenbergii C. et V.* Denkschr. Akad. Wiss. Wien, VIII.
CARL JOSEPH HYRTL (1811-1894).

Helicobranchus Hyrtl, VIII, 73; orthotype *SUDIS NILOTICUS* Cuv. & Val. A substitute for *HETEROTIS* Ehrenb.; preoccupied, already replaced by *CLUPISUDIS* Sw., 1839.

510. KNER (1854). *Die Panzerwelze des K. K. Hofnaturalien-Cabinetes zu Wien. I. Abtheilung, Loricarinæ.* Denkschr. Akad. Wiss. Wien, 1854. (An abstract in *Sitzb. Akad. Wiss. Wien*, X; 113.)

RUDOLPH KNER.

Hemiodon Kner, about 65; logotype *H. DEPRESSUS* Kner.

Acestra Kner, 93; orthotype *A. ACUS* Kner. Name preoccupied; replaced by *FARLOWELLA* Eigenmann (1890).

511. KNER (1854). *Die Hypostomiden. Zweite Hauptgruppe der Familie der Panzerfische (Loricata vel Goniodontes).* Denkschr. Akad. Wiss. Wien, 1853. This paper appeared in 1854, an abstract in *Sitzb. Akad. Wiss. Wien*, 1853.

RUDOLPH KNER.

Ancistrus Kner VII, 272; logotype *HYPOSTOMUS TEMMINCKI* Val, as restricted by Bleeker, 1863; Eigenmann (1912) indicates as type *A. CIRRHOSUS* Kner, a congeneric species.

512. MARCUSEN (1854). *Vorläufige Mittheilung aus einer Abhandlung über die Familie der Mormyren.* Bull. Acad. Sci. St. Pétersb., XII.

JOHANN MARCUSEN

Petrocephalus Marcusen, XII, 10; orthotype *MORMYRUS BANE* Val.

513. OWEN (1854). *Descriptive Catalogue of the Fossil Organic Remains of Reptilia and Pisces Contained in the Museum of the Royal College of Surgeons of England.* London, XIX.

RICHARD OWEN.

Eucynodus Owen, 160; orthotype *E. HUNTERI* Owen (fossil).

Acropoma Owen, 164; orthotype *A. ALTA* Owen (fossil). Name preoccupied by *ACROPOMA* T. & S.

Toxopoma Owen, 164 orthotype *T. POLITUM* Owen (fossil).

Cariniceps Owen, 165; orthotype *C. COMPRESSUS* Owen (fossil); name only, referred by Woodward to synonym of *EOTHYNNUS*.

Platygenys Owen, 165; orthotype *P. RUGOSUS* Owen (fossil).

Pygacanthus Owen, 166; orthotype *P. ALTUS* Owen (fossil).

Planesox Owen, 169; orthotype *P. VORAX* Owen (fossil). Name only, noted by Woodward, *Cat.*, V, 519, 1901. Same as *PERCOSTOMA* Ag.

Platops Owen, 170; orthotype *P. SUBULIDENS* Owen (fossil). Undefined; supposed to be a synonym of *BRYCHÆTUS* (Ag.)

Sciænurus Owen, 171; orthotype *S. LONGIOR* Owen (fossil). Name only; noted by Woodward, *Cat.*, 519, 1901.

514. POEY (1854). *Nuevo genero de peces Escombridos, Epinnula magistralis* Poey. *Memorias de Cuba*, I.

FELIPE POEY Y ALOY (1799-1891).

Epinnula Poey, I, 369 (April, 1854); orthotype *E. MAGISTRALIS* Poey.

515. POEY (1854). *Los Guajacones, peces de agua dulce.* *Memorias de Cuba*, I. (June, 1854.)

FELIPE POEY Y ALOY.

Gambusia Poey, I, 382; orthotype *G. PUNCTATA* Poey.

Girardinus Poey I, 383; orthotype *G. METALLICUS* Poey. A synonym of *HETERANDRIA* Ag. as restricted by Poey.

Limia Poey, I, 382; orthotype *L. CUBENSIS* Poey. A synonym of *PÆCILIA* Cuv. (*ALAZON* Gistel).

516. RAPP (1854). *Die Fische des Bodensees untersucht und beschrieben.* Jahresschr. Ver. Vaterl. Naturg. Württemberg, X.

WILHELM LUDWIG VON RAPP.

Umbla Rapp, 32; orthotype *SALMO UMBLA* = *SALVELINUS ALPINUS* L. A synonym of *SALVELINUS* Rich.

517. RICHARDSON (1854). *Vertebrates, Including Fossil Mammals.* (In Forbes, Edward (editor), *The Zoology of the Voyage of H.M.S. "Herald," Under the Command of Captain Henry Kellett, R. N., During the Years 1845-1851.* London.

JOHN RICHARDSON.

Prilonotus (Müller) Richardson; orthotype *P. CAUDACACINCTUS* Rich. A synonym of *CANTHIGASTER* Sw. or *PSILONOTUS* Sw.

Anchisomus (Kaup) Richardson, 156; logotype *TETRAODON SPENGLERI* Bloch. A synonym of *SPHEROIDES* L. as restricted.

518. THIOLLIÈRE (1854). *Description des poissons fossiles provenant des gisements coralliens du Jura dans le Bugey.* Lyons.

VICTOR JOSEPH DE L'ISLE THIOLLIÈRE.

Holochondrus Thiollière, 4; orthotype (not named) (name only) (fossil).

Spathobatis Thiollière, 7; orthotype *S. BUGESIACUS* Thiollière (fossil).

Belemnobatis Thiollière, 8; orthotype *B. SISMONDÆ* Thiollière (fossil).

Phorcynus Thiollière, 9; orthotype *P. CATULINA* Thiollière (fossil). An ally of *SQUATINA* Dum.

519. TROSCHER (1854). *Ueber die fossilien Fische aus der Braunkohle des Siebengebirges.* Verh. Naturh. Ver. Preuss. Rheinl. Westphal.

FRANZ HERMANN TROSCHER.

Tarsichthys Troschel, XI, 11; orthotype *LEUCISCUS TARSIGER* Troschel (fossil). A fossil analogue of *TINCA* Cuv.

1855

520. AGASSIZ (1855). *Synopsis of the Ichthyological Fauna of the Pacific Slope of North America, Chiefly from the Collections Made by the Expedition Under the Command of Captain C. Wilkes, etc.* Amer. Journ. Sci., XIX.

LOUIS AGASSIZ.

Bubalichthys Agassiz, 192; orthotype *CARPIODES URUS* Ag. Regarded as a synonym of *ICTIOBUS* Raf.

Ptychostomus Agassiz, 203; logotype *CATOSTOMUS AUREOLUS* Le Sueur. A synonym of *MOXOSTOMA* Raf.

Hylomyzon Agassiz, 205; haplotype *CATOSOMUS NIGRICANS* Le Sueur. A synonym of *HYPENTELIUM* Raf.

Acrocheilus Agassiz, 211; orthotype *LEUCISCUS ALUTACEUS* Rich.

Campostoma Agassiz, 218; orthotype *RUTILUS ANOMALUS* Raf.

Hyborhynchus Agassiz, 223; haplotype *MINNILUS NOTATUS* Raf.

Hybognathus Agassiz, 223; haplotype *H. NUCHALIS* Ag.

Ptychocheilus Agassiz, 227; logotype *PTYCHOCHEILUS GRACILIS* Ag. = *CYPRINUS OREGONENSIS* Rich.

Mylocheilus Agassiz, 229; haplotype *MYLOCHEILUS LATERALIS* Ag.

521. AYRES (1855). *Description of New species of California Fishes*. Proc. Cal. Acad. Sci., I, 1855.

WILLIM O. AYRES.

Leptogunnellus Ayres, 26; orthotype *L. GRACILIS* Ayres. A synonym of *LUMPENUS*.

Anarrhichthys Ayres, I, 33; orthotype *A. OCELLATUS* Ayres.

Mylopharodon Ayres, 33; orthotype *M. ROBUSTUS* Ayres.

Cebedichthys Ayres, I, 59; orthotype *C. VIOLACEUS* Ayres.

Notorhynchus Ayres, I, 72; orthotype *N. MACULATUS* Ayres.

Calycilepidotus Ayres, I, 76; orthotype *C. SPINOSUS* Ayres.

522. BASILEWSKI (1855). *Ichthyographia Chinæ Borealis*. Nouv. Mém. Soc. Nat. Moscou, X.

STEPHANUS BASILEWSKI.

Nasus Basilewski, 234; orthotype *CYPRINUS NASUS* L. A synonym of *CHONDROSTOMA* Ag.

Leptocephalus Basilewski, 234; logotype *L. MONGOLICUS* Basilewski. Name preoccupied in eels; replaced by *CHANODICHTHYS* Blkr.

Cephalus Basilewski, 235; orthotype *C. MANTSCHURICUS* Basilewski. Name preoccupied; a synonym of *HYPOPHTHALMICHTHYS* Blkr.

Culter Basilewski, 236; logotype *C. ALBURNUS* Basilewski, as restricted by Bleeker and Günther. Under the head of *CULTER* Basilewski mentions especially (*CYPRINUS CULTRATUS* L.) the type of *PELECUS* Ag., although he does not exactly specify this as type. He then proceeds to describe certain Chinese species. For some of these the name *CULTER* has been kept, although Basilewski plainly intended to make his type *CYPRINUS CULTRATUS*, in which case *CULTER* would be a synonym of *PELECUS*. At present we follow the authority of Bleeker and Günther.

Eperlanus Basilewsky, 242; orthotype *E. CHINENSIS* Basilewsky = *SALANX HYALOCRANIUS* Abbott. Name preoccupied; a synonym of *SALANX* Cuv.

Osteoglossum Basilewski, X, 244; logotype *O. PRIONOSTOMA* Basilewski. Name preoccupied by *OSTEOGLOSSUM* Vandelli. A synonym of *CHÆTOMUS* McCl.

Apterigia Basilewski, 247; logotype *A. SACCOGULARIS* Basilewski. A synonym of *MONOPTERUS* Lac. or *FLUTA* Bl. & Schn.

523. BIANCONI (1855). *Specimina zoologica Mosambicana quibus vel novæ vel minus notæ animalium species illustrantur*. Bononiæ.

GIOVANNI GIUSEPPE BIANCONI (1809-1878).

Megalepis Bianconi, 270; orthotype *M. ALESSANDRAI* Bianconi (= *UPENOIDES VITATUS*, *fide* Günther). A synonym of *UPENOIDES* Blkr.

524. BIBRON (1855). *Note sur un travail inédit de Bibron relatif aux poissons plectognathes gymnodontes (Diodons et Tetrodons)*. Rev. Mag. Zool., VIII.

GABRIEL BIBRON.

This is an important piece of work, but left incomplete at the death of its author, hence becoming in some degree a stumbling block in taxonomy. It was ably continued with the same material by Hollard in 1857. Edited by Auguste Henri Duméril.

Promecocophalus Bibron, 279; orthotype *TETRAODON LÆVIGATUS* L. A synonym of *LAGOCEPHALUS* Sw.

Dilobomycter Bibron, 279; orthotype *T. RETICULARIS* Bl. & Schn. A synonym of *OVOIDES*.

Amblyrhynchotus Bibron, 279; orthotype *TETRAODON HONCKENI* Bloch. (in French form only). Apparently distinct from *LAGOCEPHALUS* Sw.

Stenometopus Bibron, 279; logotype *TETRAODON TESTUDINEUS* L. A synonym of *SPHEROIDES* Dum.

Dichotomycter Bibron, 279; orthotype *TETRAODON PLUVIATILIS* Ham. A synonym of *TETRAODON* L. Later called *BRACHYCEPHALUS* by Hollard.

Epipedorhynchus Bibron, 279; orthotype *TETRAODON PREYCINETI* Bibron. No diagnosis. A synonym of *OVOIDES* Cuv.

Geneion Bibron, 280; orthotype *G. MACULATUS* Bibron. Apparently a synonym of *LAGROCEPHALUS* Sw.

Catophorhynchus Bibron, 280; orthotype *C. LAMPRIS* Bibron. Probably a synonym of *LAGOCEPHALUS* Sw.

Batrachops Bibron, 280; orthotype *TETRAODON PSITTACUS* Bl. & Schn. Name preoccupied; replaced by *COLOMESUS* Gill.

Monotreta Bibron, 280; orthotype *TETRODON CUTCUTIA* Ham. (French form only), the Latin given by Hollard, 1857; also spelled *MONOTRETUS*. A synonym of *LEIODON* Sw.

Rhynchotus Bibron, 280; orthotype *TETRAODON GRONOVII* Cuv. A synonym of *CANTHIGASTER* Sw.

Ephippion Bibron, 280; orthotype *E. MACULATUM* Bibron = *TETRODON GUTTIFER* Bennett, 1830. Regarded as twice preoccupied as *EPHIPPIUM*, therefore replaced by *HEMICONIATUS* Gthr., 1870.

Aphanacanthus Bibron, 280; orthotype *T. RETICULATUS* Bibron. No diagnosis. Regarded by Bleeker as identical with *MONOTRETA* (= *LEIODON*). A synonym of *LEIODON* Sw.

Xenopterus Bibron, 281; orthotype *X. BELLENGERI* Bibron = *TETRAODON NARITUS* Rich. A synonym of *CHONERHINOS* Blkr. (1854). *CHONERHINOS* has clear priority, as claimed by Bleeker.

525. BLEEKER (1855). *Over eenige visschen van Van Diemensland*. Verh. Akad. Amsterdam, II, 1855, 1-30.

PIETER BLEEKER.

Upeneichthys Bleeker, 7; orthotype *UPENEUS POROSUS* Cuv. & Val.

Brachionichthys Bleeker, II, 12; logotype *B. POLITUS* Blkr.

Gnathanacanthus Bleeker, II, 21; orthotype *G. GOETZI* Blkr. Replaces *HOLOXENUS* Gthr.

526. BLEEKER (1855). *Derde bijdrage tot de kennis der ichthyologische fauna van de Kokos-eilanden*. Neder. Tijdschr. Dierk., III.

PIETER BLEEKER.

Amphiprionichthys Bleeker, III, 172; orthotype *MICROPUS UNIPINNA* Gray. Replaces *MICROPUS* Gray, preoccupied.

527. BLEEKER (1855). *Bijdrage tot de kennis der ichthyologische fauna van de Batoe-eilanden*. Nat Tijdschr. Neder.-Indie, VIII.

PIETER BLEEKER.

Dinematicthys Bleeker, 318; orthotype *D. ILUOCÆTOIDES* Blkr.

528. BLEEKER (1855). *Visschen van de Duizend-eilanden*. Nat. Tijdschr. Neder.-Indie, VIII, 1855, 344.

PIETER BLEEKER.

Serranichthys Bleeker, 344; orthotype *SERRANUS ALTIVELIS* Cuv. & Val. A synonym of *CROMILEPTES* Sw. as restricted by Bleeker and by Swain.

529. BLEEKER (1855). *Zesde bijdrage tot de kennis der ichthyologische fauna van Amboina*. Nat. Tijdschr. Neder-Indie, VIII.

PIETER BLEEKER.

Uraspis Bleeker, VI, 418; orthotyp U. *CARANGOIDES* Blkr. Near *SELENIA* Bon.; perhaps a synonym of the latter.

530. BLEEKER (1855). *Nalezingen op de vischfauna van Sumatra. Visschen van Lahat en Sibogha*. Nat. Tijdschr. Neder.-Indie, IX, 1855, 257-280.

PIETER BLEEKER.

Luciosoma Bleeker, IX, 258; orthotype *BARBUS* Cuv. & Val.

Schismatorhynchus Bleeker, IX, 258; orthotype *LOBOCHEILUS HETERORHYNCHOS* Blkr.

Clupeichthys Bleeker, IX, 275; orthotype *C. GONIognathus* Blkr. A synonym of *CORICA* Ham.

Epalzeorhynchus Bleeker, IX, 279, 258; orthotype *BARBUS KALOPTERUS* Blkr.

531. BRONN (1855). *Lethæa Geognostica, oder Abbildungen und Beschreigen der für die Gebirgs-Formation bezeichnendsten Versteinerungen*. Stuttgart, Ed. I, 1834; Ed. III, 1855.

HEINRICH GEORG BRONN (1800-1862).

Archæoteuthis (Roemer) Bronn, I, 520, ed. III; orthotype *PTERASPIS DUNENSIS* Huxley (fossil). A synonym of *PTERASPIS* Kner.

Heptadiodon Bronn, III, 677; orthotype *ENNEODON ECHINUS* Heckel (fossil). Name substitute for *ENNEODON* Heckel, preoccupied.

532. CASTELNAU (1855). *Expédition dans les parties centrales de l'Amérique du Sud, de Rio de Janeiro à Lima, et de Lima à Para; exécutée . . . pendant les années 1834 à 1844*. (Tome 3.)

(COMTE) FRANÇOIS L. DE LAPORTE DE CASTELNAU (1812-1880).

Plataxoides Castelnau, 21; orthotype *P. DUMERILI* Castelnau. A synonym of *PTEROPHYLLUM* Heckel.

Genidens Castelnau, 33; tautotype *BAGRUS GENIDENS* Cuv. & Val = *GENIDENS CUVIERI* Castelnau.

Sternarchorhynchus Castelnau, 95; orthotype *STERNARCHUS OXYRHYNCHUS* M. & T. = *STERNARCHORHYNCHUS MULLERI* Castelnau; replaces *RHAMPHO-STERNARCHUS* Gthr., 1870.

Acanthodemus Castelnau; logotype *HYPOSTOMUS AURANTIACUS* Castelnau; name in French only (*ACANTHODÈMES*), latinized by Marschall (*Nomenclator Zoologicus*, 1873).

533. COSTA (1855). *Su di un nuovo genere di pesce fossile (Cacus)*. Atti Reale Accad. Sci. Napoli, II.

ORONZIO GABRIELE COSTA.

Cacus Costa, II, 234. (Noted by Dean and Eastman, not by Woodward. Probably a misprint for *CÆUS* Costa (*C. LEOPOLDI*, 1864).)

534. EGERTON (1855). *Fish: . . .* (In *Figures and Descriptions of British Organic Remains*.) Mem. Geol. Surv. United Kingdom.

PHILIP DE MALPAS GREY EGERTON.

Oxygnathus Egerton, VIII, No. 9; orthotype *O. ORNATUS* Egert. (fossil).

535. FILIPPI (1855). (*Gadopsis*.) Zeitschr. Akad. Wiss. Wien, VII.

FILIPPO DE FILIPPI (1814-1867).

Gadopsis Filippi, VII, 170; orthotype OLIGOPUS ATER Risso. Name preoccupied by GADOPSIS Rich. (1844) It may be replaced by the new name, VERATER Jordan, orthotype OLIGOPUS ATER Risso.

536. HOLBROOK (1855). *Ichthyology of South Carolina*. (Edition of 1855 nearly but not all destroyed by fire; replaced in 1860 by a second edition. The generic names should date from 1855.

JOHN EDWARDS HOLBROOK (1796-1871).

Diplectrum Holbrook, 32; orthotype D. FASCULARIS Holbrook = PERCA FORMOSA L.

Lagodon Holbrook, 59; orthotype SPARUS RHOMBOIDES L.

Bothrolæmus Holbrook, 80; orthotype TRACHINOTUS PAMPANUS Cuv. & Val. (TRACHINOTUS CAROLINUS). A synonym of TRACHINOTUS.

Homoprion Holbrook, 168 (second edition, 1860); orthotype H. LANCEOLATUS Holbrook. A synonym of STELLIFER (Cuvier) Oken.

537. KAUP (1855). *Enchelynassa, neue Gattung aus der Familie der Aale*. Arch. Naturgesch. XXI.

JOHANN JACOB KAUP.

Enchelynassa Kaup, 213; orthotype E. BLEEKERI Kaup. Perhaps the same as ENCHLYCORE Kaup (1856).

538. KAUP (1855). *Uebersicht über die Species einiger Familien der Sclerodermen*. Wiegmann's Arch. Naturg., XXI.

JOHANN JACOB KAUP.

Cibotion (Kaup), 215; orthotype OSTRACION CUBICUS L. A synonym of OSTRACION as here restricted.

Capropygia (Gray) Kaup, 220; orthotype C. UNISTRIATA Gray.

Centaurus Kaup, 221; orthotype OSTRACION BOOPS Rich. A larva of MOLA.

Kentrocapros Kaup, 221; orthotype OSTRACION ACULEATUS Houttuyn.

Anoplocapros Kaup, 221; orthotype A. GRAYI Kaup.

Dicotylichthys Kaup, 230; orthotype D. PUNCTULATUS Kaup.

Cyanichthys Kaup, 231; orthotype C. CÆRULEUS Kaup (not of Q. & G.) = DIODON TIGRINUS Cuv. A synonym of CHILOMYCTERUS Bibron.

Cyclichthys Kaup, 231; logotype DIODON ORBICULARIS Bloch.

Pyrodon Kaup; orthotype BALISTES NIGER Lac. Name a substitute for XENODON, preoccupied. Later than ZENODON Sw., ODonus Gistel and ERYTHRODON Rüppell, substitutes for XENODON.

539. KNER (1855). *Ichthyologische Beiträge*. Abh. Sitzb. Akad. Wiss. Wien, XVII.

RUDOLF KNER.

Bunocephalus Kner, XVII, 95; type B. VERRUCOSUS Bloch.

Oxydoras Kner, XVII, 115; orthotype DORAS NIGER Kner, not of Val. = OXYDORAS KNERI Blkr.

Clarotes Kner, XVII, 313; orthotype PIMELODUS LATICEPS Rüppell.

Pareiodon Kner, XVII, 611; orthotype P. MICRIPS Kner. Spelled PARIODON by Günther.

540. M'COY (1855). *Descriptions of the British Palæozoic Fossils in the Geological Museum of the University of Cambridge*.

FREDERICK M'COY.

Diplopterax M'Coy, 586; orthotype (D. MACROLEPIDOTUS Ag.) (fossil). Name a substitute for DIPLOPTERUS, preoccupied.

- Triplopterus** M'Coy, 589; orthotype *TRIPTERUS POLLEXFENI* M'Coy (fossil). A synonym of *OSTEOLEPIS*; name a substitute for *TRIPTERUS*, preoccupied.
- Pæcilodus** M'Coy, 638; logotype *P. JONESI* (Ag.) M'Coy (fossil) as restricted by Woodward.
- Pristicladodus** M'Coy, 642; orthotype *P. DENTATUS* M'Coy (fossil). A synonym of *DICRENODUS Romanovskii*.
541. MEYER (1855). *Physichthys höningshausi aus dem Uebergangskalke der Eifel*. *Palæontographica*, IV.
HERMANN MEYER.
- Physichthys** Meyer, IV, 80; orthotype *ASTEROLEPIS HÆNINGSHAUSI* Ag. (fossil). A synonym of *MACROPETALICHTHYS*.
542. NILSSON (1855). *Skandinavisk fauna. Fjerde Delen: Fiskarna*. Lund. XXXIV.
SVEN NILSSON.
- Blenniops** Nilsson, IV, 184; orthotype *BLENNIUS GALERITA* Pennant, not of Linnæus. A synonym of *CHIROLOPHIS* Sw.
- Ctenodon** Nilsson, IV, 190; orthotype *CLINUS MACULATUS* Fries. Name three times preoccupied; replaced by *LEPTOCLINUS* Gill.
543. PETERS (1855). *Uebersicht der in Mossambique beobachteten Seefische*. Monatsber. Akad. Wiss. Berlin.
WILHELM CARL HARTWIG PETERS.
- Ctenopoma** Peters, XXI, 1, 247; orthotype *C. MULTISPINIS* Peters, not *CTENOPOMA* of Heckel, 1856.
- Pteragogus** Peters XXI 261; orthotype *COSSYPHUS OPERCULARIS* Peters.
- Anosmius** Peters, XXI, 274; orthotype *T. TÆNIATUS* Peters. A synonym of *CÆNTHIGASTER* Sw.
- Cælonotus** Peters XXI, 465; orthotype *C. ARGULUS* Peters.
544. ROEMER (1855). *Palæoteuthis, eine Gattung nackter Cephalopoden in devonischen Schichten der Eifel*. *Palæontographica*, IV.
CARL FERDINAND VON ROEMER.
- Palæoteuthis** Roemer, IV, 72; orthotype *PTERASPIS DUNENSIS* Huxley (fossil)) (wrongly supposed to be a cuttle-fish). A synonym of *PTERASPIS* Kner.
545. STORER (1855). *A History of the Fishes of Massachusetts*. Mem. Amer. Acad. Arts. Sci. Boston, V.
DAVID HUMPHREYS STORER.
- Cheilonemus** (Baird) Storer, 285; haplotype *LEUCISCUS PULCHELLUS* Storer = *CYPRINUS CORPORALIS* Mitchill. Same as *LEUCOSOMUS* Heckel, regarded as preoccupied by *LEUCOSOMA*.
546. VALENCIENNES (1855). *Ichthyologie de la Voyage de la Vénus*.
ACHILLE VALENCIENNES.
- Doydixodon** Valenciennes; orthotype *D. FREMINVILLEI* Val.
- Passer** (Klein) Valenciennes, 344; haplotype *P. MARCHIONESSARUM* Val. Name preoccupied in birds. A synonym of *PLATOPHRYS* Sw.
- Smecticus** Valenciennes, 305; orthotype *SMECTICUS BICOLOR* Val. A synonym of *RYPTICUS*.

1856

547. AGASSIZ (1856). *The Habits of the Glanis of Aristotle*. Proc. Amer. Acad. Sci. Arts. Sci. III.

LOUIS AGASSIZ.

Glanis Agassiz; orthotype GLANIS ARISTOTELIS Ag.; not GLANIS Ag., 1829, a substitute for BAGRE; not GLANIS Gronow, 1854. Same as PARASILURUS Blkr.

548. ASMUSS (1856). *Das vollkommenste Hautskelet der bisher bekannten Thierreihe. An fossilen Fischen des alten rothen Sandsteins aufgefunden und aus ihren Resten erläutert*. Abh. Erlangung der Magisterwürde, Dorpat.

HERMANN ASMUSS.

Heterosteus Asmuss, 7; orthotype ASTEROLEPIS ASMUSSE Ag. A synonym of ICHTHYOSAUROIDES Kutorga.

Homostius Asmuss, 8; orthotype H. FORMOSISSIMUS Asmuss (fossil). (Name corrected to HOMOSTEUS.)

549. BLEEKER (1856). *Beschrijvingen van nieuwe en weinig bekende vischsoorten van Amboina, versameld op eene reis door den Molukschen Archipel, gedaan in het gevolg van den Gouverneur-Generaal Duymaer van Twist in September en October, 1855*. Act. Soc. Sci. Indo-Nederl., I.

PIETER BLEEKER.

Pteroidichthys Bleeker, I, 33; orthotype P. AMBOINENSIS Blkr.

Duymæria Bleeker, I, 52; logotype CRENILABRUS AURIGARIA Rich.

550. BLEEKER (1856). *Beschrijvingen van nieuwe en weinig bekende vischsoorten van Menado en Makassar grootendeels verzameld op eene reis naar den Molukschen Archipel in het gevolg van den Gouverneur-General Duymaer van Twist*. Act. Soc. Sci. Indo-Nederl., I.

PIETER BLEEKER.

Heterophthalmus Bleeker, 43; orthotype H. KATOPRON Blkr. Name preoccupied in beetles, Blanchard, 1851. A synonym of ANOMALOPS Kner, 1858.

Rhomboidichthys Bleeker, I, 67; orthotype R. MYRIASTER Blkr. A synonym of PLATOPHRYS Sw.

Leptocephalichthys Bleeker, I, 69; orthotype L. HYPSELOSOMA Blkr. A larval form allied to CONGER.

551. BLEEKER (1856). *Bijdrage tot de kennis der ichthyologische fauna van het eiland Boeroe*. Nat. Tijdschr. Neder.-Indie. XI.

PIETER BLEEKER.

Scorpænichthys Bleeker, XI, 385, 402; orthotype SCORPÆNA Gibbos. Name preoccupied (Girard, 1854); a synonym of SCORPÆNOPSIS Heckel.

Pholidichthys Bleeker, 406; orthotype P. LEUCOTÆNIA Blkr.

Gobiodon (Kuhl & Van Hasselt) Bleeker, 407; logotype GOBIUS HETEROSPILUS Blkr.

Culius Bleeker, 411; orthotype ELEOTRIS NIGER Blkr. = CHEILODIPTERUS CULIUS Ham. A synonym of ELEOTRIS as restricted.

Butis Bleeker, 42; orthotype BUTIS GYMNOPOMUS Blkr. (tautotype CHEILODIPTERUS TERUS. BUTIS Ham.).

552. BLEEKER (1856). *Bijdrage tot de kennis der ichthyologische fauna van Nias*. Nat. Tijdschr. Neder.-Indie, XII.

PIETER BLEEKER.

Solenognathus Bleeker, 218; orthotype SYNGNATHOIDES BLOCHI Blkr.; also written SOLEGNATHUS. A synonym of SYNGNATHOIDES Blkr., equivalent to GASTEROTKEUS Heckel.

Xiphochilus Bleeker, 223; orthotype X. TYPUS Blkr.

553. BLEEKER (1856). *Nieuwe bijdrage tot de kennis der ichthyologische fauna van Bali*. Nat. Tijdschr. Neder.-Indie, XIII.

PIETER BLEEKER.

Belobranchus Bleeker, 300; orthotype ELEOTRIS BELOBRANCHIA Cuv. & Val.

554. COSTA (1856). *Ittiologia fossile Italiana. Edizione simile all' opera dell' Agassiz sui pesci fossili alla quale è destinata a sopplimento*. Disp. v. Napoli.

ORONZIO GABRIELE COSTA.

Dichelospondylus Costa, 13; orthotype D. LONGIROSTRIS Costa (fossil). A synonym of BELONOSTOMUS Ag.

Ophirachis Costa, 13; orthotype O. DEPERDITUS Costa (fossil). Probably a synonym of BELONOSTOMUS.

Anomiophthalmus Costa, 30; orthotype A. VETUSTUS Costa (fossil). Probably identical with CÆLODUS and COSMODUS and of earlier date than the latter.

555. DUMÉRIL (1856). *Ichthyologie analytique ou classification des poissons, suivant la méthode naturelle, à l'aide de tableaux synoptiques*. Mém. Acad. Sci. Paris, XXVII.

ANDRÉ MARIE CONSTANT DUMÉRIL.

Heptatrema C. Duméril; orthotype PETROMYZON CIRRHATUS Forster. A synonym of EPTATRETUS Cloquet.

Pastinaca Duméril; tautotype RAJA PASTINACA L. A synonym of DASYATIS Raf.

Ptérure Duméril, 169; orthotype SYNGNATHUS ÆQUOREUS Gmelin (name in French only). A synonym of NEROPHIS Raf.

Péromere Duméril, 170; logotype SYNGNATHUS RONDELETT De la Roche (name in French only). A synonym of TYPHLE or TYPHLINUS Raf. In this volume of Duméril a list of genera of eels is given by Kaup in advance of its publication elsewhere. But in the same year, apparently before the appearance of Duméril's work, Kaup published his *Catalogue of Apodal Fishes*, and several of the names given by him to Duméril were dropped in this completed work.

Auchenichthys (Kaup) Duméril, 198; orthotype A. TYPUS Kaup. Name only; an ally of MURÆNICHTHYS.

Leiurus (Kaup) Duméril, 198; orthotype MURÆNA COLUBRINA Boddaert. Name twice preoccupied in Swainson; replaced by CHLEVASTES Jordan & Snyder.

Scytallurus (Kaup) Duméril, 199; orthotype SPHAGEBRANCHUS IMBERBIS De la Roche. A synonym of CÆCULA Vahl, 1794.

Enchelycotte (Kaup) Duméril, 200; orthotype ENCHELYCORE EURHINA Kaup. A manuscript name changed to ENCHELYCORE when printed in 1854.

Memarchus (Kaup) Duméril, 201; orthotype GYMNOTUS ALBIFRONS L. No definition; a synonym of APTERONOTUS Lac. = STERNARCHUS Cuv.

Altona (Kaup) Duméril, 201; orthotype GYMNOTUS ROSTRATUS L. (no definition), a synonym of RHAMPHICHTHYS M. & T.

Unipertura (Kaup) Duméril, 201; orthotype UNIBRANCHAPERTURA LÆVIS Lac. An abridgment of UNIBRANCHAPERTURA Lac.; a synonym of FLUTA Bl. & Schn. if regarded as a new name.

Giton (Kaup) Duméril, 201; orthotype GYMNOTUS FASCIATUS Pallas. = GYMNOTUS CARAPO L. A synonym of GYMNOTUS L. No definition.

- Aptérichthe** C. Duméril, 205; orthotype *MURÆNA CÆCA* L.; name in French only; given in Latin form, 1806. A synonym of *SPHAGEBRANCHUS* Bloch.
- Macrops** Duméril, 279; orthotype *SERRANUS ACULEATUS (OCULATUS)* Cuv. & Val. (name three times preoccupied). A synonym of *ETELIS* Cuv. & Val.
- Macrones** Duméril, 484; orthotype *BAGRUS LAMARRII* Cuv. & Val. Name preoccupied in beetles (Newman, 1841); replaced by *AORIA* Jordan, type *BAGRUS LAMARRII* Cuv. & Val.
- Conostome** (for *CONOSTOMUS*) Duméril, 484; orthotype *PIMELODUS CONIROSTRIS* Cuv. & Val. Called *CONORHYNCHUS* by Bleeker.
- Diplomyste** (Le) Duméril, 487; haplotype *ARIUS PAPILLOSUS* Cuv. & Val. Latinized as *DIPLOMYSTES* by Bleeker; *DIPLOMYSTAX* by Günther.
- Hydrocion** "ou mieux *HYDROCYNUS* Duméril," restricted to "une seule espèce du Nil" (*HYDROCYON FORSKALI* Cuv.). A synonym of *HYDROCYNUS* Cuv., 1817.

556, 557. GIRARD (1856). *Contributions to the Ichthyology of the Western Coast of North America from Specimens in the Smithsonian Institute . . .* Proc. Acad. Nat. Sci. Phila.

CHARLES GIRARD.

- Paralabrax** Girard, 131; orthotype *LABRAX NEBULIFER* Grd.
- Homalopomus** Girard, 132; orthotype *H. TROWBRIDGE* Grd. A synonym of *MERLUCCIUS* Raf.
- Oligocottus** Girard, 133; logotype *O. MACULATUS* Grd.
- Leiocottus** Girard, 133; orthotype *L. HIRUNDO* Grd.
- Artedius** Girard, VIII, 134; logotype *A. LATERALIS* Grd.
- Oplopoma** Girard, 135; orthotype *O. PANTHERINA* Grd. A synonym of *OPHIODON* Grd., 1854.

558. GIRARD (1856). *Researches Upon the Cyprinoid Fishes Inhabiting the Fresh Waters of the United States West of the Mississippi Valley, from Specimens in the Museum of the Smithsonian Institution.* Proc. Acad. Nat. Sci. Phila., VIII.

CHARLES GIRARD.

- Minomus** Girard, 173; haplotype *CATOSTOMUS INSIGNIS* Baird & Grd. A synonym of *CATOSTOMUS* Le Sueur, section *DECACTYLUS* Raf., 1818.
- Acomus** Girard, 173; logotype *CATOSTOMUS FORSTERIANUS* Rich. = *CYPRINUS CATOSTOMUS* Le Sueur. A synonym of *CATOSTOMUS* Le Sueur.
- Dionda** Girard, 176; logotype *D. EPISCOPA* Grd.
- Algoma** Girard, 180; logotype *A. AMARA* Grd. Not separable from *DIONDA*, both scarcely distinct from *HYBOGNATHUS*
- Orthodon** Girard, 182; orthotype *GILA MICROLEPIDOTA* Ayres.
- Algansea** Girard, 182; orthotype *LEUCISCUS TINCELLA* Cuv & Val.
- Agosia** Girard, 186; logotype *A. CHRYSOGASTER* Grd.
- Nocomis** Girard, 190; logotype *N. NEBRASCENSIS* Grd. = *RUTILUS KENTUCKIENSIS* Raf. = *LEUCISCUS BIGUTTATUS* Kirtland.
- Meda** Girard, 192; haplotype *MEDA FULGIDA* Grd.
- Cliola** Girard, 192; logotype *CERATICHTHYS VIGILAX* Baird & Grd. A synonym of *CERATICHTHYS* Baird & Grd., as first used; the name later taken for the genus *NOCOMIS*.
- Alburnellus** Girard, 193; orthotype *ALBURNUS DILECTUS* Grd. A synonym of *NOTROPIS* Raf. (1818).

Codoma Girard, 194; logotype *CODOMA ORNATA* Grd.

Alburnops Girard, 194; logotype *ALBURNOPS BLENNIUS* Grd.

Cyprinella Girard, 196; logotype *LEUCISCUS BUBALINUS* Baird & Grd. Probably a valid genus allied to *NOTROPIS* and *ALBURNOPS*.

Richardsonius Girard, 201; haplotype *ABRAMIS BALTEATUS* Baird & Grd. Probably distinct from *LEUCISCUS* Cuv. and from *TIGOMA* Grd.

Tiaroga Girard, 204; haplotype *TIAROGA COBITIS* Grd.

Moniana Girard, 199; logotype *LEUCISCUS LUTRENSIS* Baird & Grd. Not separable from *CYPRINELLA*.

Tigoma Girard, 205; logotype *GILA PULCHELLA* Baird & Grd. Probably a genus distinct from *LEUCISCUS* Cuv. and from *RICHARDSONIUS* Grd.

Cheonda Girard, 207; logotype *CHEONDA COOPERI* Grd. Probably not distinct from *TIGOMA*.

Siboma Girard, 209; haplotype *SIBOMA CRASSICAUDA* Baird & Grd. A section or genus close to *TIGOMA*.

Hudsonius Girard, 210; orthotype *CLUPEA HUDSONIA* Clinton. A section or subgenus of *NOTROPIS* or *ALBURNOPS*.

Clinostomus Girard, 211; logotype *LUXILUS ELONGATUS* Kirtland (not *CLINOSTOMUM*, a genus of worms). A section or subgenus near *NOTROPIS*.

Ceraticthys (Baird MS.) Girard, 212; haplotype *SEMOTILUS BIGUTTATUS* Kirtland (not *CERATICHTHYS* Baird & Grd., 1854). A synonym of *NOCOMIS* Grd.

559. HOLMES (1856). *Contributions to the Natural History of the American Devilfish, with Descriptions of a New Genus from the Harbor of Charleston, South Carolina*. Proc. Elliott Soc. Nat. Hist., I.

FRANCIS S. HOLMES

Diabolichthys Holmes, 39; orthotype *D. ELLIOTTI* Holmes. A synonym of *MANTA* Bancroft.

560. HECKEL (1856). *Neue Beiträge zur Kenntniss der fossilen Fische Oesterreichs*. Denkschr. Akad. Wiss. Wien, XI.

JOHANN JAKOB HECKEL.

Thrissopterus Heckel, XI, 245; orthotype *T. CATULLI* Heckel (fossil). A synonym of *MONOPTEROS* Volta (*PLATINX* Ag.)

Elopopsis Heckel, XI, 251; logotype *E. FENZLII* Heckel (fossil).

Carangodes Heckel, XI, 262; orthotype *C. CEPHALUS* Heckel (fossil). Perhaps to be regarded as preoccupied by *CARANGOIDES* Blkr., 1851.

Ctenopoma Heckel, XI, 272; orthotype *PYGÆUS JEMELKA* Heckel (fossil); preoccupied by *CTENOPOMA* Peters, 1855.

561. HECKEL (1856). *Ueber den Bau und die Eintheilung der Pycnodonten*, etc. Sitzb. Akad. Wiss. Wien, VIII, 433-464, 1854 (1856).

JOHANN JAKOB HECKEL.

Stemmatodus Heckel, XI, 202; orthotype *PYCNODUS RHOMBUS* Ag. (fossil). Preoccupied; replaced by *STEMMATIAS* Hay, 1899.

Cœlodus Heckel, XI, 202, 455; orthotype *CÆLODUS SATURNUS* Heckel (fossil). If regarded as preoccupied by *CÆLODON* Lund, may be replaced by *COSMODUS* Sauvage, 1879.

562. KAUP (1856). *Uebersicht der Aale*. Arch. Naturg.

JOHANN JACOB KAUP.

In this paper occurs the first diagnosis of the many genera of eels,

published in the same year as the *Catalogue of the Apodal Fish*. The pagination of the volume last mentioned is given in parentheses in the following list:

563. KAUP (1856). *Catalogue of the Apodal Fish in the Collection of the British Museum*. London.

JOHANN JACOB KAUP.

Congerodon Kaup, 37; orthotype *C. INDICUS* Kaup. (Not in *Cat. Apodal Fishes*.)

Centrurophis Kaup, 42 (2); logotype *C. SPADICEUS* Kaup. A synonym of *OPHICHTHUS* Ahl.

Pæcilocephalus Kaup, 43 (5); orthotype *P. BONAPARTEI* Kaup. A synonym of *OPHICHTHUS* Ahl.

Microdonophis Kaup, 43 (6) orthotype *M. ALTIPINNIS* Kaup. A synonym of *OPHICHTHUS*.

Cæcilophis Kaup, 44 (6); orthotype *C. COMPAR* Kaup. A synonym of *OPHICHTHUS*.

Herpetoichthys Kaup, 44 (7); orthotype *H. ORNATISSIMUS* Kaup. A synonym of *OPHICHTHUS*.

Brachysomophis Kaup, 45 (9); orthotype *B. HORRIDUS* Kaup.

Elapsopsis Kaup, 45 (9); orthotype *E. VERSICOLOR* Kaup (misprinted *ELAPSOPIS*). A synonym of *OPHICHTHUS*.

Mystriophis Kaup, 45 (10); orthotype *OPHISURUS ROSTELLATUS* Rich.

Murænopsis (Le Sueur) Kaup, 46 (11); orthotype *MURÆNOPHIS OCELLATUS* Le Sueur. This name was not used by Le Sueur, who wrote *MURÆNOPHIS* after Lacépède.

Echiopsis Kaup, 46 (13); orthotype *OPHISURUS INTERTINCTUS* Rich. A synonym of *MYSTRIOPHIS* Kaup.

Scytalophis Kaup, 46 (13); orthotype *S. MAGNIOCULIS* Kaup.

Leptorhinophis Kaup, 46 (14); orthotype *OPHISURUS GOMESI* Castelnau. A synonym of *SCYTALOPHIS* Kaup.

Pisodonophis Kaup, 47 (17); logotype *P. CANCRIVORUS* Kaup, as restricted by Bleeker. Later written *PISODONOPHIS* by Kaup, and since spelled *PISODONTOPHIS* by purists.

Lamnostoma Kaup, 49 (24); logotype *L. PICTUM* Kaup.

Anguisurus Kaup, 50 (24); orthotype *A. PUNCTULATUS* Kaup. A synonym of *CÆCULA* Vahl.

Callechelys Kaup, 51 (28); orthotype *C. GUICHENOTI* Kaup.

Cirrhimuræna Kaup, 52 (27); orthotype *C. CHINENSIS* Kaup.

Ophisurapus Kaup, 52 (29); orthotype *O. GRACILIS* Kaup. Later written *OPHISURAPHIS*. A synonym of *SPHAGEBRANCHUS* Bloch.

Myrus Kaup, 53 (31); orthotype *MURÆNA MYRUS* L. = *MYRUS VULGARIS* Kaup. A synonym of *ECHELUS* Raf., as restricted by Bleeker.

Enchelynassa Kaup, 59 (72); orthotype *E. BLEEKERI* Kaup.

Eurymyctera Kaup, 59 (72); orthotype *E. CRUELIS* Kaup. A synonym of *GYMNOTHORAX*.

Siderea Kaup, 59 (70); orthotype *S. PFEIFFERI* Kaup. Later written *SIDERA*. A synonym of *GYMNOTHORAX*, as restricted by Bleeker.

Enchelycore Kaup, 60 (72); orthotype *MURÆNA NIGRICANS* Bonnaterre.

Thyrsoidea Kaup, 60 (74); tautotype *MURÆNA THYRSOIDEA* Rich., but first restricted to *MURÆNA MACRURA* Bleeker, by Bleeker. As understood by me, a synonym of *GYMNOTHORAX*. As used by Bleeker, the same as *EVENCHELYS* J. & E.

Limamuræna Kaup 65 (95): orthotype *L. GUTTATA* Kaup. A synonym of *MURÆNA* L. as restricted by Ahl, 1789.

- Polyuranodon** Kaup, 65 (96); orthotype *MURÆNA POLYURANODON* Blkr. A synonym of *GYMNOTHORAX*.
- Pæcilophis** Kaup, 66 (98); orthotype *GYMNOTHORAX CATENATUS* Bloch. A synonym of *ECHIDNA* Forster.
- Aphthalmichthys** Kaup, 68 (105); orthotype *A. JAVANICUS* Kaup.
- Murænoblenna** (Lacépède) Kaup, 67; orthotype *ICHTHYOPHIS TIGRINUS* Lesson, not of Lacépède, whose type *M. OLIVACEA* is a MYXINE. Kaup observes: "Ich kenne *M. OLIVACEA* nicht."
- Congermuræna** Kaup, 71 (108); logotype *MURÆNA BALEARICA* De la Roche, as restricted by Bleeker. A synonym of *ARIOSOMA* Sw., equivalent to *CONGRELLUS* Ogilby, 1898, who restricts *CONGERMURÆNA* to *C. HABENATA*, which probably belongs to *GNATHOPHIS* Blkr. The name is spelled *CONGROMURÆNA* by authors.
- Uroconger** Kaup, 71 (110); orthotype *U. LEPTURUS* Kaup.
- Esunculus** Kaup, 143; orthotype *E. COSTAI* Kaup. A larva, allied to *ALEPOCEPHALUS*. (Not in *Uebersicht*.)
564. KAUP (1856). *Einiges über die Unterfamilie Ophidinæ*. Arch. Naturg., XXII.
JOHANN JACOB KAUP.
- Cepolophis** Kaup, I, 96; orthotype *OPHIDIUM VIRIDE* Fabricius. A synonym of *GYMNELIS* Reinh.
565. KAUP (1856). *Catalogue of the Lophobranchiate Fish in the Collection of the British Museum*. London.
JOHANN JACOB KAUP.
- The various genera of Kaup, 1853, *HEMIMARSUPIUM* excepted, are in this paper with their redescribed species
- Hemithylacus** Kaup, 61; orthotype *SYNGNATHUS LEIASPIS* Kaup. An unexplained substitute for *HEMIMARSUPIUM* Kaup, 1853. Same as *CÆLONOTUS* Peters (1855).
566. LEIDY (1856). *Notice of Remains of Extinct Vertebrated Animals Discovered by Professor E. Emmons*. Proc. Acad. Nat. Sci. Phila., 1856.
JOSEPH LEIDY (1825-1891).
- Ischyrhiza** Leidy, VIII, 256; logotype *I. MIRA* Leidy (fossil). Supposed to be a synonym of *PACHYRHIZODUS*.
567. LEIDY (1856). *Notices of Extinct Vertebrata Discovered by Dr. F. V. Hayden, During the Expedition to the Sioux Country Under the Command of Lieut. G. K. Warren*. Proc. Acad. Nat. Sci. Phila., VIII.
JOSEPH LEIDY.
- Mylognathus** Leidy, 312; orthotype *M. PRISCUS* Leidy (fossil). Probably a synonym of *EDAPHODON*.
568. LEIDY (1856). *Indications of Five Species, with Two New Genera, of Extinct Fishes*. Proc. Acad. Nat. Sci. Phila., VII.
JOSEPH LEIDY.
- Edestus** Leidy, VII, 414; orthotype *E. VORAX* Leidy (fossil).
- Sicarius** Leidy, VII, 414; orthotype *S. EXTINCTUS* Leidy (fossil). A synonym of *PETALODUS*.

569. LEIDY (1856). *Description of Two Ichthyodorulites (Stenacanthus nitidus and Cyndracanthus ornatus)*. Amer. Journ. Sci., XXI.

JOSEPH LEIDY.

Stenacanthus Leidy, XXI, 8; orthotype *S. NITIDUS* Leidy (fossil) (also in *Proc. Acad. Nat. Sci. Phila.*, 1856, 11.). A synonym of *BOTHRIOLEPIS*.

Cylindracanthus Leidy, XXI, 8; orthotype *C. ORNATUS* Leidy. Regarded as a synonym of *CÆLORHYNCHUS* Ag., which name is preoccupied.

570. LEIDY (1856). *Remarks on Certain Extinct Species of Fishes*. Proc. Acad. Nat. Sci., VIII, 301. (Also in *Trans. Philos. Soc.*, XI, 1857.)

JOSEPH LEIDY.

Protosphyraena Leidy, 56, VIII, 302 (and XI, 95); orthotype *P. FEROX* Leidy (fossil).

Cimolichthys Leidy, VIII, 302 (also XI, 95); orthotype *C. LEWESIENSIS* Leidy (fossil).

571. NEWBERRY (1856). *Description of Several New Genera and Species of Fossil Fishes from the Carboniferous Strata of Ohio*. Proc. Acad. Nat. Sci. Phila., VIII.

JOHN STRONG NEWBERRY (1822-1892).

Mecolepis Newberry, VIII, 96; logotype *M. GRANULATUS* Newberry (fossil). Name preoccupied, replaced by *EURYLEPIS* Newberry (1857).

Compsacanthus Newberry, 100; orthotype *PLEURACANTHUS LÆVIS* Newberry (fossil). A synonym of *PLEURACANTHUS*.

572. PANDER (1856). *Monographie der fossilen Fische des silurischen Systems der russisch-baltischen Gouvernements*. St. Petersburg.

CHRISTIAN HEINRICH PANDER.

Rytidolepis Pander, 48; orthotype *R. QUENSTEDTI* Pander (fossil). Besides this nominal genus, the following additional generic names have been given in this paper by Pander. All are based on fragments of dermal armor, not identified and some of them, according to Eichwald (1860), likely to belong to Eurypterid crustaceans rather than to fishes. These are *COCCOPELTUS*, *CYPHOMALEPIS*, *TRACHYLEPIS* and *PHLEBOLEPIS*. The following is the list of these nominal genera and their type species as given by Woodward:

RYTIDOLEPIS (*QUENSTEDTI*), 48.

SCHEDIOSTEUS (*MUSTELENIS*), 49.

COCCOPELTUS (*ASMUSI*), 50.

CYPHOMALEPIS (*EGERTONI*), 51.

TRACHYLEPIS (*FORMOSA*), 52.

STIGMOLEPIS (*OWENI*), 53.

DASYLEPIS (*KEYSERLINGI*), 54.

LOPHOLEPIS (*SCHMIDTI*), 55.

DICTYOLEPIS (*BRONNI*), 56.

ONISCOLEPIS (*MAGNA*, etc.), 58.

MELITTOMALEPIS (*ELEGANS*), 60.

PHLEBOLEPIS (*ELEGANS*), 60.

PRIONACANTHUS (*DUBIA*), 70.

Stigmolepis Pander, 53; orthotype *S. OWENI* Pander (fossil).

Cœlolepis Pander, 56; logotype *C. LÆVIS* Pander (fossil).

Tolypelepis Pander, 61; orthotype *T. UNDULATUS* Pander (fossil) (fragment of a *PTERASPID*).

Lophosteus Pander, 62; orthotype *L. SUPERBUS* Pander (fossil).

Pachylepis Pander, 67; orthotype *P. GLABER* Pander (fossil). A synonym of *THELODUS* Ag.

Thelolepis Pander, 67; orthotype *THELODUS PARVIDENS* Ag. (fossil). A synonym of *THELODUS* Ag.

Nostolepis Pander, 68; orthotype *N. STRIATA* Pander (fossil).

Rabdacanthus Pander 69; orthotype *R. TRUNCATUS* Pander (fossil).

Odontotodus Pander, 75; orthotype *O. ROOTSIKULLIENSIS* Pander (fossil). A

Gomphodus Pander 76; orthotype *G. SANDELENSIS* Pander (fossil).
synonym of *STIGMOLEPIS* Pander.

573. RICHARDSON (1856). *Ichthyology*. (In *Encyclopedia Britannica*, I, London.)
JOHN RICHARDSON.

Xanthichthys (Kaup) Richardson, XII, 313; orthotype *BALISTES CURASSAVICUS* Gmelin.

574. THOMPSON (1856). *The Natural History of Ireland*. London.
WILLIAM THOMPSON.

Couchia Thompson, IV, 188; orthotype *COUCHIA MINOR* Thompson. A larval form of *CILIATA*.

1857

575. BAIRD (1857). *Report on the Fishes Observed on the Coast of New Jersey and Long Island During the Summer of 1854*. From the ninth annual report of the Smithsonian Institution for 1854.

SPENCER FULLERTON BAIRD.

Eucinostomus Baird, 345; orthotype *E. ARGENTEUS* Baird = *GERRES GULA* Cuv. & Val.

576. BELLOTTI (1857). *Stoppani Studii Geol. e Paleontol.* Lombardia.
CRISTOFORO BELLOTTI.

Urolepis Bellotti, 431; orthotype *U. MACROPTERA* Bellotti (fossil).

Heptanema Bellotti, 435; orthotype *H. PARADOXUM* Bellotti (fossil).

Ichthyorhynchus Bellotti, 436; orthotype *I. CURIONI* Bellotti (fossil). A synonym of *SAURORHYNCHUS*.

577. BLEEKER (1857). *Achtste bijdrage tot de kennis der vischfauna van Amboina*. Act. Soc. Sci. Indo-Nederl., II.

PIETER BLEEKER.

Cirrhitichthys Bleeker, II, 39; orthotype *CIRRHITES GRAPHIDOPTERUS* Blkr. = *CIRRH. APRINUS* Cuv. & Val.

Oxycirrhites Bleeker, II, 39; orthotype *O. TYPUS* Blkr.

578. BLEEKER (1857). *Nieuwe nalezingen op de ichthyologie van Japan*. Verh. Bat. Gen.

PIETER BLEEKER.

Lateolabrax Bleeker, XXVI, 53; orthotype *LABRAX JAPONICUS* Cuv & Val. Same as *PERCA-LABRAX* T. & S., but this word may not have been meant as a new name.

579. BLEEKER (1857). *Bijdrage tot de kennis der ichthyologische fauna van de Sangi-eilanden*. Nat. Tijdschr. Neder.-Indie, XIII.

PIETER BLEEKER.

Scorpænodes Bleeker, 371; orthotype *SCORPÆNA POLYLEPIS* Blkr. Replaces *SEBASTOPSIS* Gill.

Eleotriodes Bleeker, XIII, 372; orthotype *E. SEXGUTTATA* Blkr. *E. HELDSINGENI* Blkr., sometimes named as type, occurs in a later paper.

Bogoda Bleeker, 468; orthotype *CHANDA NAMA* Ham. A synonym of *CHANDA* as restricted.

580. COSTA (1857). *Descrizione di alcuni pesci fossili del Libano*. Mem. Reale Accad. Napoli, II, 97-112.

ORONZIO GABRIELE COSTA.

Imogaster Costa, II, 102; orthotype *I. AURATUS* Costa (fossil).

Omosoma Costa, II, 105; orthotype *O. SACHELALMÆ* Costa (fossil).

Rhamphornimia Costa, II, 108; orthotype *R. RHINELLOIDES* Costa (fossil).

581. EGERTON (1857). *Paleolithologic Notes on Some Fish Remains from the Neighborhood of Ludlow*. Quart. Journ. Geol. Sci., XIII.

PHILIP DE MALPAS GREY EGERTON.

Auchenaspis Egerton, XIII, 286; orthotype *A. SALTERI* Egert. (fossil). A synonym of *THYESTES* Eichw.

581A. EMMONS (1857). *American Geology*, etc. Ed. I.

EBENEZER EMMONS (1799-1863).

Rabdiolepis Emmons, VI, 45; orthotype *R. SPECIOSUS* Emmons (fossil) (fragment of a scale) (not *RHABDOLEPIS* Troschel).

Microdus Emmons, VI, 48; orthotype *M. LÆVIS* Emmons (a shark tooth of uncertain relations).

582. GERVAIS (1857). *Sur un poisson labroïde fossile dans les sables marins de Montpellier (Labrodon pavementatum)*. Mém. Acad. Sci. Montpellier, III.

FRANÇOIS LOUIS PAUL GERVAIS.

Labrodon Gervais, III, 515; orthotype *L. PAVIMENTATUM* Gervais (fossil).

583. GIRARD (1857). *Contributions to the Ichthyology of the Western Coast of the United States, from Specimens in the Museum of the Smithsonian Institution*. Proc. Acad. Nat. Sci. Phila., VIII.

CHARLES GIRARD.

Chiropsis Girard, IX, 201; orthotype *CHIRUS CONSTELLATUS* Grd. (male of *H. DECAGRAMMUS*). A synonym of *HEXAGRAMMOS* Steller.

Zaniolepis Girard, IX, 202; orthotype *Z. LATIPINNIS* Grd. Misquoted as *ZANIODERMIS* by Günther (1860).

584. HOLLARD (1857). *Études sur les gymnodontes et en particulier sur leur ostéologie et sur les indications qu'elle peut fournir pour leur classification*. Ann. Sci. Nat. (Zool.), VIII.

HENRI LOUIS GABRIEL MARC HOLLARD (1801-1866).

Apsicephalus Hollard, 275; orthotype *TETRODON FLUVIATILIS* Ham. No type named; said to be equivalent to *DICHOTOMYCTER* Bibron, but including several other of Bibron's genera. Apparently a valid genus to be called *DICHOTOMYCTER*.

Brachycephalus Hollard, VIII, 275; orthotype not named, the genus said to be equivalent to *TETRAODON* of Bibron. *T. LINEATUS* L. may be assumed as type. A synonym of *TETRAODON* L.

585. NEWBERRY (1857). *Fossil Fishes from the Devonian of Ohio*. Proc. Nat. Inst. Washington, I.

JOHN STRONG NEWBERRY

Agassichthys Newberry, 3; orthotype *PLACOTHORAX AGASSIZI* Meyer (fossil). A synonym of *MACROPETALICHTHYS* Ag.

Machæracanthus Newberry, 6; orthotype *M. PERACUTUS* Newberry (fossil).

Onychodus Newberry, 7; orthotype *O. SIGMOIDES* Newberry (fossil).

586. NEWBERRY (1857). *Letter Changing the Genus Mekolepis to Eurylepis, the Former Being Preoccupied.* Proc. Acad. Nat. Sci. Phila., IX.

JOHN STRONG NEWBERRY.

Eurylepis Newberry, 150; orthotype *MECOLEPIS GRANULATUS* Newberry (fossil). Substitute for *MECOLEPIS* Newberry, preoccupied.

587. PETERS (1857). *Neue Chromidengattung (Hemichromis).* Monatsber. Akad. Wiss. Berlin.

WILHELM CARL HARTWIG PETERS.

Hemichromis Peters, 403; orthotype *H. FASCIATUS* Peters.

588. PHILIPPI (1857). *Ueber einige chilenische Vögel und Fische, etc.* Arch. Naturgesch.

RUDOLPH AMANDUS PHILIPPI (b. 1808).

Genypterus Philippi, 268; orthotype *G. NIGRICANS* Philippi.

Thysanochilus Philippi, 268; orthotype *T. VALDIVIANUS* Philippi. A synonym of *VELASIA* Gray, suppressed (but printed) by Troschel, editor of the *Archiv.* Not *THYSANOCHEILUS* Kner, 1865.

Rhynchobatis Philippi, 270; orthotype a ray from Juan Fernandez, not given a specific name, only the dried head with long, flat snout preserved. Name preoccupied as *RHYNCHOBATUS*. This animal is described as a ray with a long, thin, flat snout, rounded at the tip apparently like that of the shark, *MITSUKURINA*. Its surface below, except at the smooth base, is covered by small stellate prickles, curved backward at tip. Larger spinules cover the head with six still larger ones forming a curve around the eye. As this form, obviously distinct, is without a name, it has been called *TARSISTES PHILIPPI* Jordan.

589. RICHARDSON (1857). *On Siphonognathus, a New Genus of Fistularidæ.* Proc. Zool. Soc. London.

JOHN RICHARDSON.

Siphonognathus Richardson, 237; orthotype *S. ARGYROPHANES* Rich.

590. RÜTIMEYER (1857). (*Encheiziphius.*) Verh. Ges. Basel, I.

CARL LUDWIG RÜTIMEYER.

Encheiziphius Rütimeyer, I, 561; orthotype *E. TERETIROSTRIS* Rütimeyer (fossil). A synonym or fossil homologue of *ISTIOPHORUS*.

591. TROSCHER (1857). *Beobachtungen über die Fische in den Eisennieren des Saarbrücker Steinkohlgebirges.* Verh. Naturh. Ver. Preuss. Rheinl. Westphal.

FRANZ HERMANN TROSCHER.

Rhabdolepis Troschel, 15; logotype *PALÆONISCUM MACROPTERUM* Bronn (fossil). A synonym of *ELONICHTHYS* Giebel.

592. WAGNER (1857). *Characteristik neuer Arten von Knorpelfischen aus den lithographischen Schieferen der Umgegend von Solenhofen.* Gelehrte Anz. Bayer. Akad. Wiss., XLIV.

JOHANN ANDREAS WAGNER.

Palæoscyllium Wagner, XLIV, 291; othotype *P. FORMOSUM* Wagner (fossil).

1858

593. AGASSIZ (1858). *Remarks on a New Species of Skate from the Sandwich Islands*. Proc. Boston Soc. Nat. Hist., 1858, VI.

LOUIS AGASSIZ.

Goniobatis Agassiz, VI, 385; orthotype *RAJA FLAGELLUM* Bl. & Schn. A synonym of *AËTOBATIS* Blainv., as restricted by Müller & Henle. Same as *STOASODON* Cantor, 1850.

594. AGASSIZ (1858). *Remarks on New Fishes from Nicaragua Collected by Julius Fræbel*. Proc. Boston Soc. Nat. Hist., VI.

LOUIS AGASSIZ.

Parachromis Agassiz, VI, 401; orthotype *P. GULOSUS* Ag. (not identifiable, said to be a CICHLID (CHROMID) resembling *DENTEX*, but with the lateral line broken. Probably a synonym of *CICHLAURUS* Sw.

Hypsophrys Agassiz, VI, 401; orthotype *H. UNIMACULATUS* Ag. No description. A CICHLID said to resemble *CHRYSOPHRYS* (SPARUS) with a large, black shoulder spot (as in *ASTRONOTUS HELLERI* Steind. and other species). Probably a synonym of *ASTRONOTUS* Sw.

Baiodon Agassiz, VI, 401; orthotype *B. FASCIATUS* Ag. A slender form, said to resemble *BOOPS* Cuv. Possibly the same as *THERAPS IRREGULARIS* Gthr., but not identifiable.

Amphilophus Agassiz, VI, 401; orthotype *A. FRÆBELI* Ag., apparently *HEROS LABIATUS* Gthr. or *H. LOBOCHEILUS* Gthr. species in which the male has both lips greatly enlarged, "peculiar in not having the ordinary fleshy lips, but a large, triangular lobe projecting above and below jaw like the fleshy appendages of some bats" (Agassiz). It is possible that the species thus provided should stand as a distinct genus *AMPHILOPHUS*.

595. AYRES (1858). *On New Fishes of the Californian Coast*. Proc. Calif. Acad. Sci., 1858-1861 (1853), II.

WILLIAM O. AYRES.

Anoplopoma Ayres, II, 27; orthotype *A. MERLANGUS* Ayres. = *GADUS FIMBRIA* Pallas.
Stereolepis Ayres, II, 28; orthotype *S. GIGAS* Ayres.

596. BLEEKER (1858). *Zesde bijdrage (etc.) vischfauna van Sumatra (Visschen van Padang, etc.)*. Act. Soc. Neder.-Indie, III.

PIETER BLEEKER.

Helicophagus Bleeker, 45; orthotype *H. TYPUS* Blkr.

597. BLEEKER (1858). *Vierde bijdrage tot de kennis der ichthyologische Fauna van Japan*. Act. Soc. Sci. Indo-Neerl., III.

PIETER BLEEKER.

Sirembo Bleeker, 22; orthotype *BROTULA IMBERBIS* T. & S.

Congerodon (Kaup) Bleeker, 29; orthotype *C. INDICUS* Kaup MS. = *COGRUS LEPTURUS* Rich. Same as *UROCONGER* and of the same original date, 1856.

Triacanthodes Bleeker, 37; orthotype *TRICANTHUS ANOMALUS* T. & S.

598. BLEEKER (1858). *Tiende bijdrage tot de kennis der vischfauna van Celebes*. Act. Soc. Sci. Indo-Neerl., III.

PIETER BLEEKER.

Gunnellichthys Bleeker, III, 9; orthotype *G. PLEUROTÆNIA* Blkr.

599. BLEEKER (1858). *Bijdrage tot de kennis der vischfauna van den Goram-Archipel*. Nat Tijdschr. Neder.-Indie, XV.

PIETER BLEEKER.

Pseudoplesiops Bleeker, XV, 217; orthotype *P. TYPUS* Bleeker.

600. BLEEKER (1858). *Vierde bijdrage (etc.) van Bilitou*. Nat. Tijdschr. Neder.-Indie, XV.

PIETER BLEEKER.

Leiocassis Bleeker, 225; orthotype *L. MICROPOGON* Blkr. Corrected by Günther to *LIOCASSIS*.

Silurichthys Bleeker, 225; orthotype *S. PHAIOSOMA* Blkr.

601. BLEEKER (1858). *Twaalfde bijdrage tot de kennis der vischfauna van Borneo, visschen van Sinkawang*. Act. Soc. Sci. Indo-Neerl., V.

PIETER BLEEKER.

Sauridichthys Bleeker, 2; orthotype *S. OPHIODON* Blkr. (1858). A synonym of *HARPODON* Le Sueur.

Hexanematicthys Bleeker, V, 2; orthotype *BAGRUS SUNDAICUS* Blkr.

Sciadeichthys Bleeker, 99; orthotype *SCIADES PICTUS* M. & T. Not *SCIADEICHTHYS* Blkr., 1863.

602. BLEEKER (1858). *De visschen van den Indischen Archipel, etc. I. Siluri*. Title also in Latin as *Prodromus*.

PIETER BLEEKER.

Most of these genera occur also in later papers, 1862, 1863; the type species often indicated later.

Pseudodoras Bleeker, I, 53; orthotype *DORAS NIGER* Val.

Hemidoras Bleeker, I, 53; orthotype *DORAS STENOPELTIS* Kner. A synonym of *DORAS* Lac. as restricted by Bleeker.

Davalla Bleeker, 58; orthotype *HYPOPHthalmus DAVALLA* Schomburgk.

Pseudobagrus Bleeker, 60; orthotype *BAGRUS AURANTIACUS* T. & S.

Melanodactylus Bleeker 60; orthotype *M. ACUTIVELIS* Blkr. = *PIMELODUS NIGRODIGITATUS* Lac.

Chrysichthys Bleeker, 60; orthotype *PIMELODUS AURATUS* Geoffroy St. Hilaire.

Octonematicthys Bleeker, 60; orthotype *O. NIGRITUS* Blkr.

Rita Bleeker, 60; orthotype *PIMELODUS RITA* Ham. (*R. BUCHANANI* Blkr.).

Selenaspis Bleeker, I, 62; haplotype *SILURUS HERZBERGI* Bloch.

Cephalocassis Bleeker, 62; orthotype *ARIUS TRUNCATUS* Cuv. & Val.

Netuma Bleeker, 62; orthotype *N. THALASSINA* Blkr. = *N. NASUTA* Blkr.

Guiritinga Bleeker, 62; orthotype *G. COMMERSONI* Blkr.

Ostogeneiosus Bleeker, 63; orthotype *ARIUS MILITARIS* Blkr.

Batrachocephalus Bleeker, 63; orthotype *B. MICROPOGON* Blkr.

Ketengus Bleeker, 190; orthotype *K. TYPUS* Blkr.

Conorhynchus Bleeker, 191; orthotype *PIMELODUS CONIROSTRIS* Cuv. & Val.

Hemipimelodus Bleeker, 195; orthotype *H. BORNEENSIS* Blkr.

Zungaro Bleeker, 196; orthotype *PIMELODUS ZUNGARO* Humboldt = *ZUNGARO HUMBOLDTI* Blkr.

Heptapterus Bleeker, 197; orthotype *H. SURINAMENSIS* Blkr.

Rhamdia Bleeker, 197; orthotype *PIMELODUS QUELEN* Q. & G.

Pinirampus Bleeker, 198; orthotype *P. TYPUS* Blkr. = *PIMELODUS PIRINAMPU* Spix.

Auchenaspis Bleeker, 198; orthotype *PIMELODUS BISCUTATUS* Geoffroy. Name preoccupied; replaced by *AUCHENOGLANIS* Gthr.

Trachcorystes Bleeker, 200; orthotype *T. TYPUS* Blkr.

Rama Bleeker, 201; orthotype *PIMELODUS RAMA* Ham. = *RAMA BUCHANANI* Blkr.

Acrochordonichthys Bleeker, 204; orthotype *A. PLATYCEPHALUS* Blkr.

Gagata Bleeker, 204; orthotype *G. TYPUS* Blkr.

Schilbeichthys Bleeker, 253; orthotype *SILURUS GARUA* Ham. A synonym of *CLUPI-SOMA* Sw.

Belodontichthys Bleeker, 253; orthotype *B. MACROCHIR* Blkr. = *WALLAGO DINEMA* Blkr.

Pseudosilurus Bleeker, 253; orthotype *P. BIMACULATUS* Blkr. A synonym of *OMPOK* Lac.

Siluranodon Bleeker, 253; orthotype *SILURUS AURITUS* Geoffroy.

Kryptopterus Bleeker, 253; tautotype *SILURUS CRYPTOPTERUS* Blkr. Corrected to *CRYPTOPTERUS* by Günther.

Kryptopterichthys Bleeker, 253; orthotype *SILURUS PALEMBRANGENSIS* Blkr.

Micronema Bleeker, 253; orthotype *M. TYPUS* Blkr.

Phalacronotus Bleeker, 253; orthotype *P. LEPTONEMA* Blkr.

Hemisilurus Bleeker, 255; orthotype *H. HETERORHYNCHUS* Blkr.

Schilbeodes Bleeker, 258; orthotype *SILURUS GYRINUS* Mitchill.

Aspredinichthys Bleeker, 328; orthotype *ASPEDO TIBICEN* Temminck.

Bunocephalichthys Bleeker, 329; orthotype *BUNOCEPHALUS VERRUCOSUS* Kner.

Piratinga Bleeker, 355; orthotype *BAGRUS RETICULATUS* Kner.

Platynematchthys Bleeker, 357; orthotype *BAGRUS PUNCTULATUS* Kner.

Piramutana Bleeker, 355; orthotype *BARGUS PIRAMUTA* Kner.

603. BLEEKER (1858). *Over de geslachten der Cobitinen*. Nat. Tijdschr. Neder-Indie, XVI, 1858-1859, 302-304.

PIETER BLEEKER.

Lepidocephalus Bleeker, 303; orthotype *C. MICROCHIR* Blkr.

Cobiitichthys Bleeker, 304; orthotype *C. ENALIOS* Bleeker. A synonym of *MIS-GURNUS* Lac.

604. BLEEKER (1858). *Vischsoorten gevangen bij Japara, versameld door S. A. Thurkow*. Nat. Tijdschr. Neder.-Indie, XVI, 1858-1859, 406-409.

PIETER BLEEKER.

Oxyurichthys Bleeker, 408; orthotype *O. MICROLEPIS* Blkr. or *GOBIUS BELOSSO* Blkr.

605. BLYTH (1858). (*Amblyceps*). Journ. Asiat. Soc. Bengal, XXVII.

EDWARD BLYTH.

Amblyceps Blyth, XXVIII, 281; haplotype *A. CÆCUTIENS* Blyth.

606. BRONN (1858). *Beiträge zur triasischen Fauna und Flora der bituminösen Schiefer von Raibl in Kärnthen*. Neues Jahrb. Min.

HEINRICH GEORG BRONN (1800-1862).

Belonorhynchus Bronn, 12; orthotype *B. STRIOLATUS* Bronn (fossil). A synonym of *SAURORHYNCHUS*.

Pholidopleurus Bronn, 17; orthotype *P. TYPUS* Bronn (fossil).

Thoracopterus Bronn 21; orthotype *T. NIEDERRISTI* Bronn (fossil).

607, 612. COSTA (1858). (*Uraleptus*). Archiv. Naturg. (1858).

ORONZIO GABRIELE COSTA.

Uraleptus Costa, 87; orthotype *GADUS MARALDI* Risso. A synonym of *GADELLA* Lowe.

613. DUMÉRIL (1858). *Reptiles et poissons de l'Afrique occidentale*, etc.
Comtes Rendus Acad. Sci. Paris, 1858, LXI.

AUGUSTE HENRI ANDRÉ DUMÉRIL.

Chromichthys A. Duméril, X, 257; orthotype *C. ELONGATUS* Guich.

614. EGERTON (1858). *On Chondrosteus, an Extinct Form of the Sturionidæ, Found in the Lias Formation at Lyme Regis*. Phil. Trans. London, 1858.

PHILIP DE MALPAS GREY EGERTON.

Chondrosteus (Agassiz) Egerton, 871; orthotype *C. ACIPENSEROIDES* Ag. (fossil).

Gyrosteus (Agassiz) Egerton, 883; orthotype *G. MIRABILIS* Ag. (fossil).

615. EGERTON (1858). *Fish: Cosmolepis*, etc. (In *Figures and Descriptions of British Organic Remains*.) Mem. Geol. Surv. United Kingdom, 1858, 9 dec.

PHILIP DE MALPAS GREY EGERTON.

Cosmolepis Egerton, Dec. IX, No. 1; orthotype *C. EGERTONI* Ag. (fossil).

Endactis Egerton, Dec. IX, No. 4; orthotype *E. AGASSIZI* Egert. (fossil). A synonym of *CATURUS*.

Centrolepis Egerton, Dec. IX, No. 5; orthotype *C. ASPER* Ag. (fossil).

Nothosoma (Agassiz) Egerton, Dec. IX, No. 6; orthotype *N. OCTOSTYCHIUS* Ag. (fossil).

Pleuropholis Egerton, Dec. IX, No. 7; logotype *PHOLIDOPHORUS LÆVISSIMUS* Ag. (fossil).

Macropoma (Agassiz) Egerton, Dec. IX, No. 10; orthotype *M. EGERTONI* Ag. (fossil). Replaces *EURYCORMUS* Wagner (1863).

616. GILL (1858). *Prodromus descriptionis subfamiliæ Gobinarum squamis cycloideis piscium, a cl. W. Stimpsono in mare Pacifico acquisitorum*. Ann. Lyceum Nat. Hist. N. Y., 1858-1862, VII, 12-16.

THEODORE NICHOLAS GILL (1837-1914).

Chænogobius Gill, 12; orthotype *C. ANNULARIS* Gill.

Lepidogobius Gill, 14; orthotype *GOBIOUS GRACILIS* Grd. = *G. LEPIDUS* Grd.

617. GILL (1858). *Description of a New Genus of Pimelodinæ from Canada*. Ann. Lyceum Nat. Hist. N. Y., 1853-1858, VI, 3.

THEODORE NICHOLAS GILL.

Synechoglanis Gill, 39; orthotype *SYNECHOGLANIS BEADLEI* Gill = *ICTALURUS PUNCTATUS* (Raf.). A synonym of *ICTALURUS* Raf.

618. GILL (1858). *Prodromus descriptionis familiæ Gobioidarum generum novorum*. Ann. Lyceum Nat. Hist. N. Y., 1858-1862, VII, 16-19.

THEODORE NICHOLAS GILL.

Tridentiger Gill, 16, Dec.; orthotype *SICYDIUM OBSCURUM*, T. & S.

Triænophorus Gill, 17; orthotype *T. TRIGONOCEPHALUS* Gill. Name preoccupied, replaced by *TRIÆNOPHORICHTHYS* Gill.

619. GILL (1858). (*Triænophorichthys*.) Proc. Acad. Nat. Sci. Phila., 1859.

THEODORE NICHOLAS GILL.

Triænophorichthys Gill 195; orthotype *TRIÆNOPHORUS TRIGONOCEPHALUS* Gill. Substitute for *TRIÆNOPHORUS* Gill, preoccupied.

620. GILL (1858). *Synopsis of the Fresh-water Fishes of the Western Portion of the Island of Trinidad, West Indies*. Ann. Lyceum Nat. Hist. N. Y., 1853-1858, VI, 363-430.

THEODORE NICHOLAS GILL.

- Ctenogobius** Gill, 374; orthotype *C. FASCIATUS* Gill.
Pimelonotus Gill, VI, 387; orthotype *P. VILSONI*. A synonym of *RHAMDIA* Blkr. of the same year.
Batrachoglanis Gill, VI, 389; orthotype *PIMELODUS RANINUS* Cuv. & Val. A synonym of *PSEUDOPIMELODUS* Blkr. of about the same date.
Hoplosternum Gill, VI, 395; orthotype *CALlichthys LÆVIGATUS* Val.
Pterygoplichthys Gill, VI, 408; orthotype *HYPOSTOMUS DUODECIMALIS* Cuv. & Val.
Pœcilurichthys Gill, 414; logotype *P. BREVOORTI* Gill.
Hemigrammus Gill, 416; haplotype *H. UNILINEATUS* Gill.
Stevardia Gill, 423; orthotype *S. ALBIPINNIS* Gill.
Corynopoma Gill, 425; orthotype *C. RIISEI* Gill. A synonym of *STEVARDIA* Gill.
Nematopoma Gill, 428; orthotype *N. SEARLESI* Gill. A synonym of *STEVARDIA* Gill.

621. HECKEL & KNER (1858). *Die Süßwasserfische der oesterreichischen Monarchie mit Rücksicht auf die angränzenden Länder*.

JOHANN JAKOB HECKEL; RUDOLPH KNER.

- Carpio** Heckel, 64; orthotype *CYPRINUS KOLLARI* Heckel. A supposed hybrid of *CYPRINUS* and *CARASSIUS*.
Blicca Heckel, 120; orthotype *CYPRINUS BLICCA* Gmelin.
Leucaspius Heckel & Kner, 145; orthotype *L. ABRUPTUS* Heckel & Kner.
Idus Heckel, 147; orthotype *CYPRINUS IDUS*, L.

622. KADE (1858). *Ueber die devonischen Fischreste eines diluvial Blockes*. Meseritz, 1858.

G. KADE.

- Gyrolepis** Kade, 17, 18; orthotype *G. POSNANIENSIS* Kade (fossil). Name pre-occupied; perhaps a *DIPLOPTERAX*.
Archæacanthus Kade, 19; orthotype *A. QUADRISULCATUS* Kade (fossil). A synonym of *ONCHUS*.
Spirodus Kade, 20; orthotype *S. REGULARIS* Kade (fossil).

623. KAUP (1858). *Uebersicht der Familie Gadidæ*. Arch. Naturg., 1858, XXIV, pt. 1.

JOHANN JACOB KAUP.

- Xenocephalus** Kaup, 83; orthotype *X. ARMATUS* Kaup.
Physiculus Kaup, 88; orthotype *P. DALWIGKII* Kaup.
Lotella Kaup, 88; orthotype *LOTA PHYCIS* T. & S.
Molvella Kaup, 90; orthotype *M. BOREALIS* Kaup = *GADUS MUSTELA* L. A synonym of *CILIATA* Couch.
Brotella Kaup, 92; orthotype *BROTULA IMBERBIS* T. & S. A synonym of *SIREMBO* Blkr.
Hoplophycis Kaup, 93; orthotype *XIPHIURUS CAPENSIS* Smith. A section under *GENYPTERUS* Philippi.
Brotulophis Kaup, 93; orthotype *B. ARGENTISTRIATUS* Kaup.

624. KAUP (1858). *On Nemophis, a New Genus of Riband-shaped Fishes*. Proc. Zool. Soc. London, 1858, pt. 26.

JOHANN JACOB KAUP.

- Nemophis** Kaup 168; orthotype *N. LESSONI* Kaup.

625. KAUP (1858). *Uebersicht der Soleinæ*, etc. Arch. Naturg.

JOHANN JACOB KAUP.

Monochirus Kaup, 94; orthotype *M. MACULIPINNIS* Kaup. Not of Rafinesque, 1814; a synonym of *ACHIRUS* Lac.**Grammichthys** Kaup 94; orthotype *ACHIRUS LINEATUS* L. A synonym of *ACHIRUS* Lac.**Æsopia** Kaup, 97; logotype *SOLEA CORNUTA* Cuv. (as restricted by Günther, 1862).**Euryglossa** Kaup, 99; orthotype *PLEURONECTES ORIENTALIS* Bl. & Schn.**Eurypleura** Kaup, 100; logotype *E. LEUCORHYNCHA* Kaup. A needless substitute for *ACHIROIDES* Blkr.**Gymnachirus** Kaup, 101; orthotype *G. NUDUS* Kaup.**Aseraggodes** Kaup, 103, logotype *A. GUTTULATUS* Kaup.**Heteromycteris** Kaup, 103; orthotype *H. CAPENSIS* Kaup.**Apionichthys** Kaup, 104; orthotype *A. DUMERILI* Kaup.626. KAUP (1858). *Uebersicht der Plagusinæ, der fünften Subfamilie der Pleuronectidæ*. Arch. Naturg., 1858, XXIV, pt. 1.

JOHANN JACOB KAUP.

Cantoria Kaup, 106; orthotype *PLAGUSIA CANTORI* Blkr. = *CANTORIA PINANGENSIS* Kaup.**Aphoristia** Kaup, 106; orthotype *ACHIRUS ORNATUS* Lac. A synonym of *SYMPHURUS* Raf.**Arelia** Kaup, 106; logotype *PLEURONECTES AREL* Bl. & Schn.**Trulla** Kaup, 106; orthotype *PLAGUSIA TRULLA* Cantor.**Icania** Kaup, 106; orthotype *ACHIRUS CYNOGLOSSUS* Buchanan.627. KAUP (1858). *Einiges über die Acanthopterygiens à joue cuirassée* Cuv. Arch. Naturg., 1858, XXIV, pt. 1.

JOHN JACOB KAUP

Polemius Kaup, 333; orthotype *APISTUS ALATUS* Cuv. & Val. Kaup transfers *APISTUS* Cuv. to *A. TRACHINOIDES*, a species not mentioned by Cuvier, making *PROSOPODASYS*, Cantor's substitute name (1849), a synonym of *APISTUS*. *POLEMIUS* must be regarded as a synonym of *PTERICHTHYS* Sw. if *APISTUS* is rejected.**Cocotropus** Kaup, 333; orthotype *CORYTHOBATUS ECHINATUS* Cantor.**Peristethus** Kaup, 336; orthotype (*TRIGLA CATAPHRACTA* L.). A change in spelling of *PERISTEDION* a name also revised to *PERISTETHIDIUM*.**Trichopleura** Kaup, 338; orthotype *STHENOPUS MOLLIS* Rich. A synonym of *STHENOPUS*.**Hoplocottus** Kaup, 339; logotype *PODABRUS COTTOIDES* Rich. (first species named), a species of *PSEUDOBLENNIUS* T. & S., 1850. *PODABRUS* is preoccupied and *HOPLOCOTTUS* was made to contain both *PODABRUS* and *TRACHIDERMIS* Heckel. A synonym of *PSEUDOBLENNIUS* T. & S.628. KNER (1858). *Ichthyologische Beiträge*. II. Abtheilung. Sitzb. Akad. Wiss. Wien, XXVI.

RUDOLPH KNER.

Asterophysus Kner, XXVI, 402; orthotype *A. BATRACHUS* Kner.**Centromochlus** Kner, XXVI, 430; orthotype *C. MEGALOPS* Kner.629. LEIDY (1858). *Descriptions of Some Remains of Fishes from the Carboniferous and Devonian Formations of the United States*. Journ. Acad. Nat. Sci. Phila., III.

JOSEPH LEIDY.

Apedodus Leidy, III, 164; orthotype *A. PRISCUS* Leidy (fossil). Probably a synonym of *DENDRODUS*.

630. LEIDY (1858). *Notices of Some Remains of Extinct Fishes (Hadrodus, etc.)*. Proc. Acad. Nat. Sci. Phila., 1857 (1858), 167-168.

JOSEPH LEIDY.

Hadrodus Leidy, 167; orthotype *H. PRISCUS* Leidy.

Phasganodus Leidy, 167; orthotype *P. DIRUS* Leidy (fossil). A synonym of *CIMOLICHTHYS* Leidy.

Turseodus Leidy, 167; orthotype *T. ACUTUS* Leidy (fossil)..

631. VON DER MARCK (1858). (*Fossil Fishes.*) Zeitschrift der Deutschen Geologie, X.

W. VON DER MARCK (*d.* 1900).

Pelargorhynchus von der Marck, X, 242; logotype *P. DERCETIFORMIS* Marck (fossil).

Sardinius von der Marck, X, 245; orthotype *OSMERUS CORDIERI* Ag. (fossil). Not *SARDINIA* Poey, 1860, nor *SARDINA* Antipa, 1914, which is the same.

Sardinioides von der Marck, X, 245; orthotype *OSMEROIDES MONASTERI* Ag. (fossil). A synonym of *OSMEROIDES* Ag.

Echidnocephalus von der Marck, X, 247; orthotype *E. TROSCHLI* Marck (fossil). An extinct analogue of *HALOSAURUS*.

Ischyrocephalus von der Marck, X, 248; orthotype *I. GRACILIS* Marck (fossil). A synonym of *ENCHODUS*.

Platycormus von der Marck, X, 351; orthotype *BERYX GERMANUS* Ag. (fossil).

632. PANDER (1858). *Die Ctenodipterinen des devonischen Systems*. St. Petersburg, 1858, VIII, 65.

CHRISTIAN HEINRICH PANDER.

Cheirodus Pander, 33; orthotype *C. JEROFEJEWI* Pander (fossil). A synonym of *CONCHODUS* McCoy; the name preoccupied.

Ptyctodus Pander, 48; orthotype *P. OBLIQUUS* Pander (fossil).

633. PHILIPPI (1858). *Beschreibung neuer Wirbelthiere aus Chile*. Arch. Naturg. RUDOLPH AMANDUS PHILIPPI.

Chilopterus Philippi, 306; no specific name given. A larval lamprey; probably of *CARAGOLA* Gray.

633A. QUENSTEDT (1858). *Der Jura*. Tübingen, 1856-1858, VI.

FRIEDERICH AUGUST VON QUENSTEDT.

Desmacanthus Quenstedt, 34; orthotype *D. CLOACINUS* Quenstedt (fossil). A synonym of *NEMACANTHUS*.

Lycodus Quenstedt, 240; orthotype *SAURICHTHYS GIGAS* Quenstedt (fossil).

Pachylepis Quenstedt, 241; orthotype (problematical cranial bones) (fossil).

Chimæracanthus Quenstedt, 347; orthotype. *A. AALENSIS* Quenstedt (fossil). A synonym of *ISCHYODUS*.

Psilacanthus Quenstedt, 347; orthotype *P. AALENSIS* Quenstedt (fossil).

Typodus Quenstedt, 781; logotype *T. ANNULATUS* Quenstedt (fossil). Apparently a synonym of *MESODON*, which, being preoccupied, it replaces.

Kokkoderma Quenstedt, 810; orthotype *K. SUEVICUM* Quenstedt (fossil). Later spelled *COCCODERMA*.

634. REINHARDT (1858). *Stegophilus insidiosus, en ny mallefisk fra Brasilien og dens levemaade*. Vidensk. Meddel. Naturh. Foren. Kjöbenhavn, 1859, 79-97.

JOHANN THEODOR REINHARDT.

Stegophilus Reinhardt, tab. 2; orthotype *S. INSIDIOSUS* Reinh.

635. ROUAULT (1858.) *Note sur les vertèbres fossiles des terrains sédimentaires de l'ouest de la France*. Comptes Rendus Acad. Sci. Paris, 1858, XLVII, 99-103.

MARIE ROUAULT.

Nummopalatus Rouault, XLVII, 101; orthotype *N. EDWARDSIUS* Rouault (fossil).

A synonym of *LABRODON* Gervais.

Machærius Rouault, XLVII, 102; orthotype *M. ARCHIACI* Rouault (fossil). Name preoccupied; a synonym of *MACHÆRACANTHUS* Newberry.

636. THIOLLIÈRE (1858). *Notice sur les poissons fossiles du Bugey, et sur application de la méthode de Cuvier à leur classement*. Bull. Soc. Géol. France, 1858, 2 sér., XV, 782-794.

VICTOR JOSEPH DE L'ISLE THIOLLIÈRE.

Attakeopsis Thiollière, XV, 784; orthotype *A. DESORI* Thiollière (fossil). Name only; validated in 1873. A synonym of *IONOSCOPUS* Costa.

Callopterus Thiollière, XV, 784; orthotype *C. AGASSIZI* Thiollière (fossil). Name occupied as *CALOPTERUS* in beetles (1838); may be replaced by *AINIA* Jordan, from the locality Ain in France.

637. WEINLAND (1858). *A New Division of the Five Species of Flying-fish Found Along the Coast of North America, Which Have Hitherto All Been Referred to the Genus Exocetus*. Proc. Boston Soc. Nat. Hist., VI, 385.

DAVID FRIEDRICH WEINLAND.

Halocypselus Weinland, VI, 385; orthotype "*EXOCÆTUS MESOGASTER*" = *EXOCÆTUS VOLITANS* L. = *E. EVOLANS* L., the two being identical, as Dr. Lönnberg has shown by the examination of Linnæus' type of *E. VOLITANS*.

OMISSIONS IN PART II.

As these pages go through the press the following errors and omissions are noted:

On page 173, Bennett's *Fishes of Mauritius*, No. 143A, is in two parts, both in 1831, not 1830. The first is the collection of Captain Belcher (November), the second that of Charles Telfair (December).

Insert—

Apolectus Bennett, I, 146 (November); orthotype *A. IMMUNIS* Bennett. Name preoccupied, replaced by *APODONTIS* Bennett.

Apodontis Bennett, I, 169 (December); orthotype *APOLECTUS IMMUNIS* Bennett, substitute for *APOLECTUS* Bennett, preoccupied by *APOLECTUS* Cuv. & Val. (October) 1830.

Under **Agonostomus** read *A. TELFAIRI*.

On page 174, to 142A Cuvier & Valenciennes add—

Apolectus Cuvier & Valenciennes, VIII, 438; orthotype *A. STROMATEUS* Cuv. & Val. = *STROMATEUS NIGER* Bloch.

On page 219 the name *Coccolus* was given as substitute for *KROHNIUS*, a larval *MACROID*, as stated on page 226.

INDEX TO PART II.

In the following list, the names of genera likely to prove valid are left unmarked; *d* indicates doubt of one form or another; *s* indicates synonyms, apparently never to be revived or added to the system.

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